

From boatanchors@theporch.com Mon Sep 11 17:13:00 1995  
From: Don\_Burns-EPUR01@email.mot.com  
Subject: 160 Meter BA?  
Message-ID: <"Macintosh \*/PRMD=MOT/ADMD=MOT/C=US/"@MHS>

I am getting the itch to get on 160 meters and would like to do it with a BA.  
My trusty Collins A4 will suffice on the receiving end. What is a good TX for  
CW and sideband?

--

Don Burns	K4GHD/Lowfer	\	Motorola E-Mail: epur01
Motorola Inc.		\	Internet:epur01@email.mot.com
North American Radio Systems Divn		\	Voice: 305-723-5518
Plantation, FL U.S.A.		\	Fax: 305-723-4343

X.400: /c=us/admd=attmail/prmd=motorola/g=don/s=burns/ddt=id/ddv=epur01/

From boatanchors@theporch.com Mon Sep 11 09:58:00 1995  
From: "Colin Schmutter" <cschmutter@bcit.bc.ca>  
Subject: Re:6BZ6 sub for 6BA6  
Message-ID: <199509102348.QAA23546@mozart.bcit.bc.ca>

The previous question should have been in regard to a Drake R-4C receiver not  
the TR-4C.

Colin

cschmutter@bcit.bc.ca  
Colin Schmutter  
VE7CQH

CSCHMUTTER@BCIT.BC.CA

From boatanchors@theporch.com Mon Sep 11 09:58:00 1995  
From: "Colin Schmutter" <cschmutter@bcit.bc.ca>  
Subject: 6BZ6 tube for TR-4C RF stage  
Message-ID: <199509102343.QAA23536@mozart.bcit.bc.ca>

It seems from previous discussion that a 6BZ6 is a better performing RF tube  
than a 6BA6.

Would anyone like to comment on replacing the 6BA6 RF tube in a Drake TR-4C  
receiver with a 6BZ6?

Colin

cschmutter@bcit.bc.ca  
Colin Schmutter  
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From boatanchors@theporch.com Mon Sep 11 22:07:00 1995  
From: scott@hplst.lvld.hp.com  
Subject: A good weekend Hamfesting  
Message-ID: <199509112120.AA215494422@relay.hp.com>

Greetings all. I just spent a perfectly delightful Saturday at the High Plains Roundup at Yellowpine campground in the Sherman Mountains between Cheyenne and Laramie WY. Fairly good wx with a few showers but a good time, definitely.

The High Plains fest is fairly small as such things go, with the emphasis on get-together rather than serious selling. I had a chance to meet a fair number of people that I'd talked to on 75 meters over the years but had never met. (Yes, there is intelligent life on 75 phone after dark, including quite a few boatanchor enthusiasts. You just have to look for them.) A few good things did show up though and, of course, I drove home with the best of it...

A Collins 32V-1 transmitter, 75A-1 receiver, speaker cabinet and manuals.

The radios are in very good condition with a little bit of grime on the cabinets and a few minor scratches, but otherwise just about perfect. No knob problems, dial face problems or anything else. Inside, excellent. No grundge or corrosion. I saw no obvious problems, and they supposedly work well having been used up 'til recently. There have been no obvious modifications. Even a new final in the transmitter.

The speaker cabinet has a few scratches, one small dent in the middle of the top edge, and some stains on the speaker grill. It was also the grungiest of the group, but cleaned up well last night. As a newcomer to vintage Collins gear, I learned that St. James Grey Wrinkle holds onto dirt about as well as anything I've encountered. A mild detergent, soft bristle brush and perserverance seemed to work though. Now I've got to go back through the archives looking for some of the other cleanup suggestions posted recently before I tackle the radios.

Any Collins speaker cabinet experts out there? Mine has black strips above and below the grill rather than the chrome strips on the radios, and no Collins logo. Is this original? It seems that I've seen

speakers with chrome, and the logo on them, but can't remember for certain. If so, any sources for these parts?

I'm really looking forward to going through these and getting them on the air. If any of the more Collins literate out there have any tips, suggestions or lists of "gotchas", please feel free to pass them along.

Thanks for letting me gush. I've been looking for something like this at a reasonable price for some time and I'm still grinning. Oh BTW... I've decided these are going to look just fine on the table next to all of my Drake gear :-)

BTW ^2. I also picked up what appears to be a nice Hickock 6000A Tube Tester. Like I said. Great weekend!

Scott Turner KG0MR scott@lvld.hp.com

From boatanchors@theporch.com Mon Sep 11 09:58:00 1995  
From: wendler@tomcat.adc.ray.com (John Wendler)  
Subject: Abbreviation NOS?  
Message-ID: <9509111251.AA22936@tomcat.adc.ray.com>

I have been seeing NOS used in many posts, but I must have blinked when somebody spelled it out. Would some charitable soul on the list give me a clue?

Thanks!

John

From boatanchors@theporch.com Mon Sep 11 09:58:00 1995  
From: wendler@tomcat.adc.ray.com (John Wendler)  
Subject: Re: Abbreviation NOS?  
Message-ID: <9509111318.AA23010@tomcat.adc.ray.com>

I hadn't finished reading the digest, I've gotten three responses already! Thanks for the clue!

John

From boatanchors@theporch.com Mon Sep 11 17:13:00 1995  
From: HAMRLUND@aol.com  
Subject: Re: Abbreviation NOS?  
Message-ID: <950911112947\_16226859@mail02.mail.aol.com>

New

Old  
Stock

robert

From boatanchors@theporch.com Mon Sep 11 22:07:00 1995  
From: Gary Pewitt <gpewitt@execpc.com>  
Subject: Re: Abbreviation NOS?  
Message-ID: <Pine.SOL.3.91.950911151339.11086A-100000@earth>

New Old Stock ie. unsold merchandise.

From boatanchors@theporch.com Mon Sep 11 22:07:00 1995  
From: klzat@bah.com  
Subject: Re: Abbreviation NOS?  
Message-ID: <Pine.SUN.3.91.950911205309.26873B-100000@booz.bah.com>

John --

On Mon, 11 Sep 1995, John Wendler wrote:  
> I have been seeing NOS used in many posts, but I must  
> have blinked when somebody spelled it out. Would some

Network Operating System ? <grin, couldnt resist>).

jd

From boatanchors@theporch.com Mon Sep 11 17:13:00 1995  
From: FRANCIS4@AppleLink.Apple.COM (Francis, Dexter)  
Subject: ABK 1-7/Army SCR-595 Manual...  
Message-ID: <810850472.0506698@AppleLink.Apple.COM>

BoatEtherPersons -

I have just acquired a copy of the "Operating Manual for Navy Model ABK Series Aircraft Radio Receiving Equipment Including Navy ABK, ABK-1 Through ABK-7 and Army SCR-595 Series Manufactured for the U.S> Navy Department Bureau of Ships"

This is a 24 page booklet and is in excellent condition considering that it's got to be 50 years old.

I don't own any of the equipment describes therein, and would be pleased to pass it on to someone who does, for little more than the cost of postage, and assurances that you are not an agent of a foreign power, as the booklet is marked "RESTRICTED" and serialized (S.N. 43001)

e-mail replies greatly accepted.

-df

From boatanchors@theporch.com Mon Sep 11 17:13:00 1995  
From: Al Klase <alklase@village.ios.com>  
Subject: AN/FRR-22  
Message-ID: <Pine.BSD.3.91.950911151923.2061B-100000@village.ios.com>

Picked up this RX at Gaithersburg. Covers 250KHz thru 8MHz.  
Interesting mechanical construction with sub-mini tubes and a projection  
type dial. Does anyone have any documentation or other info on this piece?

Thanks,  
Al - N3FRQ

From boatanchors@theporch.com Mon Sep 11 17:13:00 1995  
From: KC5IJD@aol.com  
Subject: Re: AN/FRR-22  
Message-ID: <950911153823\_16399905@emout04.mail.aol.com>

> Picked up this RX at Gaithersburg. Covers 250KHz thru 8MHz.  
> Interesting mechanical construction with sub-mini tubes and a projection  
> type dial. Does anyone have any documentation or other info on this piece?

Al,

Yes, sure do. This is an RCA set contracted for in 1950. There is a VLF  
version (FRR-21 or SRR-11) and an HF version (FRR-23 or SRR-13). I have  
an SRR-11 and FRR-22. They are quite interesting sets. Very conventional  
in electronic design but a most superb mechanical design. Totally  
modularized - its wonderful construction. Granted it was easier for the  
Navy to service as they had all the spare modules (both main units and  
tube sub-units), but I think it still is a great mechanical design  
intended to make repair easy. The noise limiter causes distortion due to  
improper biasing on AM however. You can correct this, though.

The manual is quite large and would be rather costly to duplicate (I  
think that Don Merz may have a copy, though). Check with him. If he  
cannot supply one, I can see to having my duplicated.

Any specific info you need on the set?

Joseph W Pinner  
Lafayette, LA  
KC5IJD  
EMail: kc5ijd@aol.com

From boatanchors@theporch.com Mon Sep 11 09:58:00 1995  
From: "Robert M. Bratcher Jr" <bratcher@krypton.netropolis.net>  
Subject: BA's in movies  
Message-ID: <199509101919.TAA14984@krypton.netropolis.net>

I'll have to check my tapes sometime!  
BA's spotted in "Chubosco" in the wheelhouses of the tuna clippers old 2-3  
mhz stuff.  
Another WW2 John Wayne movie I think.  
Robert M. Bratcher Jr.  
E-mail to:  
bratcher@netropolis.net  
or  
robert2039@aol.com

From boatanchors@theporch.com Mon Sep 11 09:58:00 1995  
From: "Dennis Thompson" <dennist@onramp.NET>  
Subject: Re: BOATANCHORS digest 206  
Message-ID: <199509110212.VAA23547@mailhost.onramp.net>

I have a Weston Model 981, type 3A tube tester, but no manual. I  
thought it was a Hickok when I first saw it in a dark and musty old  
electronics warehouse. But Weston it is, made by Daystrom, with an  
address of Newark 14, New Jersey. The roll says to reference edition R-3  
when ordering a new one and I believe a part number of F-2780. The meter reads  
Mutual Conductance values.

It cleaned up very nicely. The tag said it was owned originally by a  
state agency in California, but I think it had very little use. The  
silver paint on the case was scratched with someone's name, but little  
other cosmetic damage. The working deck of the unit looks unused. I would be  
glad to prepay for a xerox of a manual, or contact any known commercial  
service providing these.

Anyone one have an idea how old this unit is? It has 12AX7 on the roll chart for example. Suggestions please.

I hope this is not too far off the frequency..

From boatanchors@theporch.com Mon Sep 11 09:58:00 1995  
From: rdkeys@unity.ncsu.edu  
Subject: Re: build rigs from scratch  
Message-ID: <199509111346.JAA09775@cc01du.unity.ncsu.edu>

>  
> >>BTW, here's a challenge (Bob?): Build an xmtr (almost) completely from  
> >>scratch - carbon for the resistors,

Accepted.....

> When I was first getiing into electronics, I built by own microphone. Here's  
> how:  
>  
> Remove two carbon rods from exhausted D cells and cut four notches in the  
> rods with a rattail file. (Notches are spaced one half inch apart).Solder  
> wires to the ends of the rods which are cripped to the metal top. Take an  
> old shoe box and invert it. Place the two carbon rods on the what was the  
> botton. Place the two rods in parallel, about 2" apart and use hot wax to  
> bond the rods to the shoe box. Take 4 pieces of 'lead' from a mechanical  
> pencil and place them in the previously cut notches.  
>  
> Voila ! Crude, but working carbon mike.  
>  
> Regards,  
> Jerry Proc VE3FAB

This is an excellent carbon mike, for the experimenter, albeit not commonly used these days, but present in many of the kid's experimenter books.

In the early days it was not uncommon for folks to build things, quite literally, from scratch. Consider the lowly grid resistor for the regenerator (AKA low-loss tuner).....

1. Take a piece of goodly linen of the highest quality, of a size about a half inch wide and two inches long.
2. About 1/4 inch in from each end, draw a large dot about 1/4 inch in diameter with a no. 2 leaden pencil (carbon pencil).
3. Scribe a line about medium heaviness between the two large dots.

4. With the tip of the pencil, punch a hole suitably sized for a no. 6 or 8-32 mounting screw, and affix to a thin piece of bakelite with the screws and a suitable solder lug or a pair of washers under the head of the screws for mounting wires.
5. Mount in place as your grid leak resistor on the grid capacitor terminals or separately, as your practice suits.
6. Such a pencil lead grid leak resistor will be of the range of several megohms, suited to the standard detector tube ('01A).

Consider also, the lowly transmitting capacitor used in the tuning circuits of early 20's transmitters.

1. Take approximately 5 (an odd number) of 1/4 plate photographic glass plates, stripped of all emulsion.
2. Take one less than the number of glass plates of good tin foil, as found on wrapping foils or tins of tobacco, etc., and size them to be about 1/4 inch smaller all around than the glass plates, BUT leave a tab on one side for bringing out the electrical connections.
3. Mount up the glasses with the foils sandwiched in between but alternate the tabs so that they come out on opposite sides.
4. Solder up or screw up the tabs to the circuit as appropriate.
5. Such a condenser should be of a value in the several hundred micro-micro-farad range, suited to bypasses, or tuning padders for all transmitting purposes.

There are lots of other things that can be done to complete the rigs, both for receivers and for transmitters.

Happy Boatanchoring!

73/ZUT DE NA4G/Bob

From boatanchors@theporch.com Mon Sep 11 09:58:00 1995  
From: "Robert M. Bratcher Jr" <bratcher@krypton.netropolis.net>  
Subject: carrier current  
Message-ID: <199509101919.TAA14987@krypton.netropolis.net>



Thought about trying some AM on 200khz or so but who to do it with? What kind of range can I get in the city?

Robert M. Bratcher Jr.

E-mail to:

bratcher@netropolis.net

or

robert2039@aol.com

From boatanchors@theporch.com Mon Sep 11 22:07:00 1995

From: Michael.J.Knudsen@att.com

Subject: Re: Coded Signal Identification ?

Message-ID: <9509111817.AA04959@bock.ih.att.com>

I remember those! As a kid in the '60s I assumed they were jammers; there was always one near the more interesting foreign broadcasters.

However, I since learned that many of these were multiplexed narrow-band RTTY signals -- maybe a half dozen or more RTTY channels packed tightly together, all shifting at their own rates and phases.

But, in those good ole Cold War days, some of them probably WERE jammers.  
73, mike k w9nrd

From boatanchors@theporch.com Mon Sep 11 09:58:00 1995

From: howellh@acad.winthrop.edu

Subject: Collins 32S3 Neutralization

Message-ID: <95091023314883@acad.winthrop.edu>

WINTHROP UNIVERSITY

Electronic Mail Message

Date: 10-Sep-1995 11:24pm EDT

From: Haney Howell

HOWELLH

Dept: Mass Communication

Tel No: 323-4534

TO: Remote Addressee ( \_smtp%"boatanchors@theporch.com" )

Subject: Collins 32S3 Neutralization

>From the "low tech" desk...

I've managed to get the trusty 32S3 back up and running and I've replaced the

finals with a set of matched RCA JAN types. Now I'm faced with neutralization.

Any tips? Is the procedure in the manual the best way to go? My trusty VTVM is marginal and I'm not confident of the RF probe functions. This is the most involved neutralization process I've ever delt with.

Thanks

Haney no2n/4 howellh@winthrop.edu

+++++

From boatanchors@theporch.com Mon Sep 11 22:07:00 1995

From: Michael.J.Knudsen@att.com

Subject: Re: Collins 32S3 Neutralization

Message-ID: <9509111902.AA05081@bock.ih.att.com>

Well, I'm faced with deciding whether to go thru the neutralizing on my "new" KWM-2. I think it needs it.

Its manual also says to use a big dummy load and RF voltmeter. And says to do it at 28 MC, which rules out a scope.

However, I don't see why you can't loosely couple (very loosely) any old rcvr with an S-meter to the dummy load and use that as a null indicator, provided the rx doesn't pick up stray RF from the rig directly.

In fact Collins recommends that setup for neutering of some lower-level RF stages. 73, mike k w9nrd

From boatanchors@theporch.com Mon Sep 11 09:58:00 1995

From: TOM.A.ADAMS@mail.admin.wisc.edu

Subject: Dogs and hamfests

Message-ID: <F9AG1844.F9AG1855@mail.admin.wisc.edu>

to: boatanchors@theporch.com

Hello Paul.

Get rid of the DOGS at hamfests??? THAT'S BLASPHEMY!!! :-)

IMHO, a good dog is an important part of the BA scene, and of hamfesting.

I don't do it very often, but Shane the Wonder Dog sometimes accompanies me to the hamfests (Bozo the Bitch usually stays at home; she's not only too high strung and rambunctious, but it seems that Canine Agility dog shows are

usually held on the same days as hamfests, and the O.L. is heavily into that scene).

Shane is a big 12 year old Irish Setter who's absolutely convinced that everyone in the world is a potential friend. He's ALWAYS been a dignified old gentleman, and has NEVER caused a problem as we wander down the rows of gear at hamfests. He's totally laid back & loves poking his grey old snoot into all the boxes on the ground. A couple of times that sort of behavior has sniffed out stuff I was looking for!

He absolutely LOVES boatanchors; on a cold winter night when 160 CW is hot his favorite activity is taking a nap under the operating desk (keeping my feet warm), snuggled up next to a nice, warm plate supply that talks to him when I key the rig.

I have to agree with you to an extent tho. I've never been a fan of small, skittish, yappy dogs, especially toy poodles, and hamfests seem to attract those sneaky little ankle biters in droves. There's nothing more discouraging than looking over your table to see a poodle taking a wizz on your HT-37. Maybe they're discriminating enough to prefer HT-32s and they're making an editorial comment, but I doubt it; they don't seem to have enough taste to make that sort of distinction.

Re. the other dog, Bozo:

She too seems to be fascinated by BA equipment. I'm absolutely convinced that she's really an engineer who did something horrendous in a former life, and was reincarnated as a dog. I've tried to test that theory, and she seems to respond to the name "Oppenheimer".

If I'm working on a piece of gear she'll sit there watching every move I make like a hawk; she's the Quality Control inspector in my shack :-). It's kinda spooky; she looks as if she REALLY understands what I'm doing, and she's there to supervise and make sure things are done correctly.

It's a good thing that dogs don't have opposable thumbs; if they did, she'd grab the tool box and take apart every chunk of gear in the place!

The only piece of gear she won't go near is my Tek 545 scope. When she was a puppy she made the tactical error of trying to sniff the cooling fan while it was running! No injury, except to her pride; the spinning blades spanked her snoot real good.

She still holds a grudge; every time I wheel out the scope cart, she'll go lay down a safe distance away and just GLARE at the scope!

73's,

Mr. T., K9TA

(Better get the flak jacket from the cleaners; the poodle lovers are loading their big guns!)

From boatanchors@theporch.com Mon Sep 11 22:07:00 1995  
From: Brien Pepperdine <pepperb@gov.on.ca>  
Subject: Drake "A" twins, what about them - R They OK?  
Message-ID: <Pine.OSF.3.90.950911162601.7661B-100000@govonca2>

Here is a question for those who have the experience of Drake gear.  
I was talking with a fellow about Drake, since I had missed a pair of 4C twins a few weeks back due to no phone service at the time - they went fast by the time I got a working phone.  
Anyhow, what the scoop of the R4A, which I understand is triple conversion with an different IF set up than the B and C models?

What about a TR4CW? I only am interested in the Drake for CW operation, so the reciever has to be fine for cw - that means a CW filter (TR4CW) or in the case of the R4A I am to understand that the exceptional setup with its passband tuning essentially gets away from the cw crystal filter need - OR does it!??

He said the TR4CW is a compromise ' as all xcvs ' are. ie. no passband tuning, but I wonder how good it is with a filter compared to the 4A rcvr with its IF setup?

Also, how do you feel about the Twins versus the tranceiver, better with two or is the xcver not too bad transmit wise (of course, considered after the all important question of reception is addressed and answered satisfactorily re. cw).

Thanks for any input anyone has - I am trying to research this a bit before plunging into the Drake hunt in earnest. The C twins I lost out on were a fluke, but it got me to thinking about what I should be looking for and deciding to get if and when I find whatever it is I should be looking for.

73

Brien

Toronto  
VE3VAW

pepperb@gov.on.ca

From boatanchors@theporch.com Mon Sep 11 22:07:00 1995  
From: Neal McEwen <nmcewen@metronet.com>  
Subject: Re: Drake "A" twins, what about them - R They OK?  
Message-ID: <199509112323.AA24665@metronet.com>

> Anyhow, what the scoop of the R4A, which I understand is triple  
> conversion with an different IF set up than the B and C models?

I believe that the A and B were double conversion and the C was  
triple conversion.

> What about a TR4CW? I only am interested in the Drake for CW operation,  
> so the reciever has to be fine for cw - that means a CW filter (TR4CW) or  
> in the case of the R4A I am to understand that the exceptional setup with  
> its passband tuning essentially gets away from the cw crystal filter need  
> - OR does it!??

The A and B used very tight LC filters. Not as good as the xtal  
filters of the C but worked quite well. The B seemed to have less  
distortion coming thru the filters but ultimately not as sharp.

> He said the TR4CW is a compromise ' as all xcvs ' are. ie. no passband  
> tuning, but I wonder how good it is with a filter compared to the 4A rcvr  
> with its IF setup?

Given a choice, I rather have passband capability. It only enhances  
the use of a sharp filter. It also helps the A and B LC filters.

> Also, how do you feel about the Twins versus the tranceiver, better with  
> two or is the xcver not too bad transmit wise (of course, considered  
> after the all important question of reception is addressed and answered  
> satisfactorily re. cw).

If you are going to work CW, you would like the twins better. Often  
you need to operate split frequency to compensate for a drifting xmtr  
on the other end. This requires RIT at a minimum on a XCVR. At best  
on a XCVR, this requires a separate VFO. I can't remember is the  
TR4CW has a RIT. I think maybe it does since this model was labeled CW!  
Some DX stations work very wide splits of 5 to 25 Hz. or more. given  
a choice, i'd take the twins.

Another consideration is all of the modification tips and articles that

have appeared over the years for the C twins. Sherwood and Sartori mods come to mind. The C line was and is a very good rig that can be made an excellent rig with a few mods.

--

73 de K5RW        - Neal McEwen                                - Richardson, TX (Dallas)  
\*\*\*\*\* I collect old telgraph and wireless telegraph keys \*\*\*\*\*  
amprnet           - k5rw@k5rw.ampr.org                                - home (214) 234-1653  
HomeNet           - nmcewen@metronet.com                                - OS/2 tcp/ip SLIP  
HomePage          - [http://fohnix.metronet.com/~nmcewen/techno\\_weenies.html](http://fohnix.metronet.com/~nmcewen/techno_weenies.html)

From boatanchors@theporch.com Mon Sep 11 22:07:00 1995  
From: "Colin Schmutter" <cschmutter@bcit.bc.ca>  
Subject: Re: Drake "A" twins, what about them - R They OK?  
Message-ID: <199509120055.RAA00398@mozart.bcit.bc.ca>

> Another consideration is all of the modification tips and articles that  
> have appeared over the years for the C twins. Sherwood and Sartori  
> mods come to mind. The C line was and is a very good rig that can  
> be made an excellent rig with a few mods.

Would anyone know what the above mods are for the R-4C  
and where to find them?

Colin Schmutter  
VE7CQH

CSCHMUTTER@BCIT.BC.CA

From boatanchors@theporch.com Mon Sep 11 09:58:00 1995  
From: lakeith@wrdis01.robins.af.mil (Larry Keith Mr)  
Subject: Re: Drake C line Knobs  
Message-ID: <199509111252.HAA02098@wrdis01.robins.af.mil>

> Since I currently own no Drake gear, I did the only thing a true  
> Boatanchorite could do,,,,,,,,,,,,,I ordered 4.

I like that! The mark of a true "junk box junkie" is that we buy it  
because it is there..

Now I know why I bought that stack of Command Receiver parts rigs at  
Prater's Mill, this weekend!! It was the only thing a true  
Boatanchorite could do!

73,

Larry, KQ4BY  
lakeith@robins.af.mil

From boatanchors@theporch.com Mon Sep 11 09:58:00 1995  
From: "Colin Schmutter" <cschmutter@bcit.bc.ca>  
Subject: Drake R-4C RF stage (6BZ6)  
Message-ID: <199509110221.TAA23836@mozart.bcit.bc.ca>

The recent postings about substituting a 6BZ6 for a 6BA6 in RF stages has left me wondering if this would benefit a Drake R-4C receiver.

Would anyone like to comment on this modification for a Drake R-4C which uses a 6BA6 RF stage.

Colin

cschmutter@bcit.bc.ca

Colin Schmutter  
VE7CQH

CSCHMUTTER@BCIT.BC.CA

From boatanchors@theporch.com Mon Sep 11 09:58:00 1995  
From: Grant H Youngman <us007699@interramp.com>  
Subject: RE: Drake R-4C RF stage (6BZ6)  
Message-ID: <Chameleon.950911080449.us007699@nq5t.gtetel.com>

On Sun, 10 Sep 1995 21:16:01 -0500 (CDT) Colin Schmutter wrote:

>The recent postings about substituting a 6BZ6 for a 6BA6 in RF stages has left  
>me wondering if this would benefit a Drake R-4C receiver.  
>  
>Would anyone like to comment on this modification for a Drake R-4C which uses a  
>6BA6 RF stage.

Since I started this when talking about an sp600, I'll hazard a couple of comments and caveats....

First, the 6BA6 is a remote cutoff pentode. The 6BZ6 is a

semi-remote cutoff type, and depending on how AGC is applied to the stage, you could damage the strong signal handling characteristics of the receiver. I've never studied the Drake design, so I can't comment with any certainty.

Second, the pinouts of the two tubes are not the same. Unless Drake has grounded both the suppressor grid AND the cathode directly, you'll have to rewire the socket just to find out what will happen.

Third (I'm guessing here), but the plate resistance of the 6BZ6 is going to be lower than the 6BA6 so there could be an issue with loading of the following tuned circuits.

Fourth, unless you do a lot of weak signal work on 10/15 meters, it may not do much for you anyway -- and that presumes that the 6BZ6 characteristics, GIVEN THE DRAKE DESIGN, actually results in some improvement in sensitivity and lowered noise floor without introducing overload problems.

Finally, based on some performance numbers published some time back by Sherwood Engineering, it doesn't look like it would really be worth the trouble .... I don't have them in front of me, but as I recall, they were pretty impressive to begin with -- and I've found that to be borne out based on the operating characteristics of my own R4-C (with several Sherwood features installed).

Regards ... Grant/NQ5T

-----  
Grant H Youngman -- NQ5T  
us007699@interramp.com  
-----

From boatanchors@theporch.com Mon Sep 11 09:58:00 1995  
From: "Bob Scott" <Bob\_Scott@cpqm.saic.com>  
Subject: Erie, PA Hamfest  
Message-ID: <n1401322188.52214@cpqm.saic.com>

Since I grew up in Erie and since this hamfest was on a Saturday, I thought it might be nice to run up there, visit the family and check out the hamfest (not necessarily in that order). The Erie Hamfest is small to modest in size, but they make up for it with the friendly people. They had a smattering of boatanchors. I guess



the big draw is the Butler, PA hamfest which is held on Sunday.  
I was in a hurry to get home so I skipped that one as well as the  
Gaithersburg, MD one. I saw the following;

#### Heathkits

HX-11 - \$60 (G)  
DX-20 - \$35 (G)  
HR-10B - \$45 (VG)  
Seneca - \$80 (F)

There were two Drake TR-4's. Asking prices were \$150 and \$200.  
Neither one was in great shape, but were operational. Also saw a  
HQ-129X w/speaker (looked homemade) for \$70, a HQ-110A for \$95,  
a Viking Valiant for \$200 and a National NC-125 for \$45. Most  
seemed to go home with there owners. Also saw a Yeasu FT-401  
for \$250. It went home too. Maybe they had better luck at Butler.

It was kind of nice to attend a hamfest back home. When I was a  
novice, I did not even know there was a Radio Association of  
Erie, let alone a hamfest. Of course, back then it took all the  
newspapers I could peddle just to build my station.

73, Bob AC4QO ...

AFA2CY Woodbridge, VA

From boatanchors@theporch.com Mon Sep 11 17:13:00 1995  
From: "Tom Taylor" <tom\_taylor@taligent.com>  
Subject: Foothill Flea Market  
Message-ID: <n1401311737.53821@taligent.com>

I went to the Foothill Flea Market (South Bay Area) on Saturday hoping to pick  
up a signal generator. I saw a lot of Eico and Heath signal generators and  
even more audio generators. The first really interesting item I saw was a  
Precision Model 612 tube tester. It caught my eye because it was packaged in  
a wooden box (the box was built with box joints) with a hinged wooden lid.  
Inside, the tester was in perfect condition. The metal parts were still  
bright and polished. The owner wanted \$25. What sealed the deal for me was  
the fact that the set came with the original manual, extra data sheets, and  
all the flyers sent by the company over the years urging the owner to buy  
updated roll charts.

I saw more signal generators and finally bought an Eico 369 TV-FM Sweep and  
Post-Injection Marker Generator with all the manuals for \$7.

On the last row of the flea market, in the second to last spot, I found an  
excellent condition HP 606A signal generator with manual. I bought it for  
\$45. "He shoots, he scores." What a nice piece of equipment and it's built  
like nothing I've ever owned!

From boatanchors@theporch.com Mon Sep 11 17:13:00 1995  
From: KE8NEfix@aol.com  
Subject: FS Arc 5 connectors  
Message-ID: <950911132738\_16308367@emout04.mail.aol.com>

Hi Gang,

I posted several days ago a pair of ARC-5 rack connectors for sale at 25.00 for the pair. I have not seen the original post or response to the post which leads me to believe that the thing went into AOL never neverland. So here it is again. If it got through but not back to me, I apologize. If you posted and I didn't reply, please call me at 1-616-677-3706 and I can take care of the particulars. Please excuse to foulup.

Thanx

KIM

From boatanchors@theporch.com Mon Sep 11 22:07:00 1995  
From: HAMRLUND@aol.com  
Subject: FS: MCI OPEN REEL PRICE REDUCED  
Message-ID: <950911181907\_96787836@mail06.mail.aol.com>

If...your in to music, SWL, or Net recording, I have a broadcast / studio quality 10.5" open reel machine.  
It has all the features you could ever want....  
sells used from Harris-Allied for about \$900.00

it's a 3-piece rack unit (25.5" of panel space needed)..has , cue, dolby, slave, nice VU meters, 4 track, digital min. & sec. readout,selectable track, remote outlet, edit, seperate record - repro controls, theres not much this thing won't do..many more funtions not listed here.  
This unit is made by M.C.I. they made broadcast / studio quality equipment.

Model JH-110 Series.

Will sell for \$400.00 + shipping cont. U.S.

If interested Contact via email:  
Robert Fowle  
Jackson, Mich.  
Ph. 517-789-6721

From boatanchors@theporch.com Mon Sep 11 17:13:00 1995  
From: Steve Ellington <n4lq@iglou.com>  
Subject: FS: Hammarlund R620/FRR  
Message-ID: <Pine.SOL.3.91.950911153237.23897A-1000000@iglou>

I saw this for sale on packet if anyone is interested.

Contact KB7CQW 503-371-1318

Steve  
n4lq@iglou.com

From boatanchors@theporch.com Mon Sep 11 17:13:00 1995  
From: Thomas Bryan <tbryan@mailstorm.dot.gov>  
Subject: FS: Russian Radios  
Message-ID: <199509111706.NAA18485@mailstorm.dot.gov>

Hello All,

I still have some Russian military VHF FM manpack sets to sell.

If you are interested send me an email.

Tom Bryan  
tbryan@mailstorm.dot.gov

From boatanchors@theporch.com Mon Sep 11 09:58:00 1995  
From: jproc@worldlinx.com  
Subject: Fuse Trivia  
Message-ID: <Chameleon.4.01.2.950910205728.jproc@>

Dear BA's,

Ever wonder why cartridge fuses are stamped with a voltage rating along with the current rating? I wondered about this myself and got the answer from the Littlefuse Company in St Louis, Missouri many years ago.

The voltage rating denotes the highest voltage that can be applied to the fuse and NOT have the glass enclosure shatter from the thermal energy produced when the fuse blows. In the interest of BA safety, voltage ratings on fuses should be respected, especially if the fuse is clip-mounted and not covered.

Regards,

-----  
Jerry Proc VE3FAB  
E-mail: jproc@worldlinux.com  
Radio Restoration Volunteer  
HMCS Haida, Toronto Ontario  
-----

From boatanchors@theporch.com Mon Sep 11 09:58:00 1995  
From: bill@texan.frco.com (William Hawkins)  
Subject: Re: Fuse Trivia  
Message-ID: <9509110618.AA08154@texan.frco.com>

Well, it's a slow news night, let me add to the previous post about clearing time.

Power company networks are low impedance networks, because they must minimize wasted power. When you short a power line, all that is saving you from having the gigawatts of rotational energy in all those generators dumped into your location, with results that the neighbors would remember for a long time to come, is the time that it takes energy to traverse a transmission line. That is why it is important that fault protection devices operate within a certain amount of time. And, as with so many things in life, you can't depend on the other guy to look out for you. Oh, they try, but that didn't prevent the total power failure at the lab, or the NorthEast Blackout.

Could you bring it all down with one bad fuse? I dunno, depends on where you are and what's happening at the time.

Bill Hawkins bill@bvc.frco.com

From boatanchors@theporch.com Mon Sep 11 09:58:00 1995  
From: bill@texan.frco.com (William Hawkins)  
Subject: Re: Fuse Trivia  
Message-ID: <9509110558.AA08146@texan.frco.com>

Seems to me the clearing time is part of that, as well. If an arc starts, it will take time to clear, even if the glass shatters. Your equipment could be ruined during that time.

I remember a story from the early '70's about a lab circuit breaker that did not clear in the expected time, and the effect cascaded out to ever bigger breakers until it took out the fuse on a high voltage line. The moral of the story was to be sure that your selection of local breaker would clear before the next one up tripped.

Really, folks - putting in a 20 amp automotive fuse (32 VDC) in place of the 1 amp 125 volt fuse, just because the electrolytics (or the shorted turns in the transformer) are drawing a little current, is not good practice. The careful boatanchor buyer should look at the fuses. Otherwise, you could be the cause of the next NorthEast Blackout. (Yes, I know it's not supposed to be able to happen again, but still, no smiley.)

Bill Hawkins bill@bvc.frco.com

From boatanchors@theporch.com Mon Sep 11 17:13:00 1995  
From: haynes@cats.ucsc.edu (Jim Haynes)  
Subject: Re: Fuse Trivia  
Message-ID: <199509111750.KAA29010@hobbes.UCSC.EDU>

>From bill@texan.frco.com Mon Sep 11 00:03:50 1995  
>I remember a story from the early '70's about a lab circuit breaker  
>that did not clear in the expected time, and the effect cascaded  
>out to ever bigger breakers until it took out the fuse on a high  
>voltage line. The moral of the story was to be sure that your  
>selection of local breaker would clear before the next one up  
>tripped.  
>

Hey, I have a story like that! When I was an E.E. student back in the late 50s we had this big A.C. Machinery lab. Out on the lab floor there were a number of experiment stations, each having a box with a bunch of binding posts. These were wired back to a switchboard, one of the old-fashioned big slate boards with knife switches on the front, and with jacks wired to the various kinds of power and to the experiment stations. There were patch cords, huge things, bigger than a garden hose, so you could connect whatever you needed to your experiment station. As I recall the available things were 120V and 240V AC and 120V DC. There was also a handle on the end of the board that was connected through a mechanical linkage passing through the wall to operate a circuit breaker next to the transformer outside the building.

Well one afternoon I was supposed to have a drafting class, and when I got there the building was all dark and the class had been dismissed because you can't do drafting in a dark room. Asking around, I learned that Carlos TG9AI, alas now a SK, had AC Machinery lab that afternoon, and that he or one of his lab partners had accidentally patched both 120V and 240V to the same set of wires, and then had thrown the big knife switches to turn the power on. And instead of tripping the circuit breaker right outside the building the fault went somewhere back up the system to a breaker or fuse way up in the mountains; and it took all afternoon for the power company to get things back on.

From boatanchors@theporch.com Mon Sep 11 17:13:00 1995

From: Al Klase <alklase@village.ios.com>

Subject: Gaithersberg Gathering

Message-ID: <Pine.BSD.3.91.9509111114049.20987A-100000@village.ios.com>

=09At Tony Stalls suggestion, and with a lot of coordinating messages=20  
via E-mail, eight members of the Boatanchors mailing list met for dinner on=  
=20

the eve of last Sunday=92s Gaithersberg, MD hamfest. At Roy Morgan=92s=20  
suggestion we gathered at Roy=92s Place (any relation ?) a sandwich and bee=  
r=20

establishment on Diamond Street within walking distance of the=20  
fairgrounds. Anchorites in attendance were, in the order they signed the=  
=20

napkin: Clark Fishman - WA2UNN, Keith Voss - N2FQB,Chuck Manos -=20

KA2ZNP, Marc Melucas - KB0JPQ, Roy Morgan - K1LKY, Al Klase -=20

N3FRQ, Dave Kneper, and Tony Stalls - K4KY0.

=09As a result of this gathering, I ended up in adjoining tailgating=20  
spaces with Dave and Marc for Sunday=92s festivities. This worked out well=  
=20

as we took turns minding the store while the other guy went shopping. A=20  
great time was had by all.

=09Gaithersberg is probably the largest Hamfest on the East coast. =20

Although the sponsoring club doesn=92t advertise the fact, the Fairgrounds =  
is=20

open on Saturday for =93setup=94 and many vendors campout Saturday night. =  
=20

Even if your not actively selling, the extra ten bucks per car is probably=  
=20

well worth it as a =93camping fee=94 and for the opportunity to do some ear=  
ly=20

shopping and socializing. Ask Tony about his NIB TV-7 tube tester.

=09This is a social event that needs to be repeated next year. Perhaps=20

we can get a cookout going at the fairgrounds, as initially intended, now=  
=20

that we have the lay of the land. =20

=09We all need to thank Tony Stall for making this happen. =20

73, Al - N3FRQ=09

From boatanchors@theporch.com Mon Sep 11 17:13:00 1995  
From: Nick England <nick@cs.unc.edu>  
Subject: Gaithersburg  
Message-ID: <199509111620.MAA06121@altair.cs.unc.edu>

I'm sorry I missed the Sat night gathering that Tony set up - also sorry I missed the Sat night swapping that went on - I enjoyed meeting Tony, Marc, Dave, Al, and seeing Dennis again.

I definitely have to say that between Shelby and GHaithersburg it has been a good 10 days for East Coast boatanchoring. Gaitherburg was better than last year and I thought last year was pretty good. Lots of parts like big coils and tuning condensers and tons of ointeresting rigs.  
A sample - HQ-215, four NC-125's, etc.

I came home with a Lafayette Explore-Air regen and a DX-100B.

Seems like Gaithersburg is becoming THE place for an east coast boatanchor gathering - see you there next year.

73,  
Nick KD4CPL

From boatanchors@theporch.com Mon Sep 11 09:58:00 1995  
From: W3BJZ@aol.com  
Subject: Gaithersburg Hamfest  
Message-ID: <950910181347\_95963271@mail04.mail.aol.com>

I want personally thank the boatanchor gang who were most gracious hosts to my two sons and myself at Gaithersburg. Needless to say a good time was held by all.

Even if several boatanchors kept me up all night on the grounds with their consistent bragging about who had the best boatanchors!

Saw lots of gear as mentioned by earlier postsp; however, I came home with my NC-303 that is still for sale. Lots of nice equipment went begging.

Thank for this post and for Al, Tony, Mike, and other whose names slip my memory but their most supportive comments about my publication did not go

unnoticed. Thanks gang. Hope to see you all of you again.

My sons and I got home tired and a hungry for mom's cooking. The memories will live on.

Dave, W3BJZ

From boatanchors@theporch.com Mon Sep 11 17:13:00 1995

From: gc@fox.cen.com (Gary Chatters)

Subject: Re: Gaithersburg Hamfest

Message-ID: <9509111817.AA08154@cen.com>

Here are a few more observations on Gaithersburg. As always, it was big.

My original plan was to get there at 6:00am when the gates opened, but that didn't happen. I finally got there at about 7:20am on Sunday. That was still early enough to see a few of the good deals.

I use the term "see" the good deals, because there is too much in my project queue now, so I pass up a lot.

One of the first items I saw was a Drake "C" line pair, very clean looking with 3 filters in the receiver. Asking price was \$150 for each unit. I figured they would go fast. Out of curiosity I went back to that table about 10 minutes later, just in time to see someone taking out his wallet to pay for the pair. If I overheard correctly, the transaction occurred at \$250 for the pair.

Going around the corner, I came across an R390A, clean looking, built by Motorola. Asking price was \$200. I decided I didn't really need a third R390A (at least not yet), so I passed up another great deal. As I expected, it was gone by about noon.

There were several R390A's there. The \$200 Motorola was the cleanest looking one I saw and the cheapest. Also spotted one R390 for \$250 and an R392 for only \$125.

There is seldom much tube type VHF FM gear at hamfests, but I spotted at least one mobile and an all tube type Motorola base station in an rack cabinet.

There wasn't a lot of RTTY stuff there, but one guy did have a 28KSR and a spare new model 28 floor model cabinet. I was hoping someone else would take it, but no one did and he threatened to trash the whole thing, so I hauled it home. I hope to get a couple more people in the DC area interested in maintaining the mechanical Teletypes,



because I can't fit any more into my apartment.

Now for the odd item found (but not bought): In the area near the fence under the trees, someone had on his table a TMC model GPE-1 "general purpose exciter". About a 5" high rack mount unit, the owner said it put out about a watt of CW or AM. Unfortunately, there was no manual and the asking price was \$50. It was crystal controlled and covered 2 - 30 Mc. I was somewhat surprised that such a low level exciter would do AM. Is anyone familiar with this unit or its use? Did TMC make an amplifier to go with it?

My only tube purchase was a 3-6Mc Command set for \$25.  
I didn't really need another project, but it was too nice looking to pass up.

73,

Gary

From boatanchors@theporch.com Mon Sep 11 17:13:00 1995  
From: dsnowden@ccd.harris.com (Doug Snowden)  
Subject: Global Non-Inductive Resistor  
Message-ID: <9509111454.AA251577@rs2.ccd.harris.com>

I bought one at the Melbourne Hamfest this weekend. It says (I think) Global Type CX. It is 50 ohms and is about 2 feet long and maybe 1-3/4 inches in diameter. Anybody have any ideas on the power rating of this thing? Ideas on extending the rating? Like suspended in oil, etc? I'd like to make a dummy load out of it....

Also, anyone got old Millen and National catalogs that have their chokes and coils in them? If you can FAX (407) 242-4268 Attn: Doug Snowden.

73 Doug, N4IJ dsnowden dsnowden@ccd.harris.com

From boatanchors@theporch.com Mon Sep 11 17:13:00 1995  
From: thaake@bsm2ee1.attmail.com (thaake)  
Subject: RE:Globe King?  
Message-ID: <PMX-TERM-2.02-bsm2ee1-thaake-74>

Tom K9TA,

It sounds like the Globe King you are refering to is the 400 series. I have the 400 model and it has a pair of V-70D triodes in the final and uses plug-in coils for all stages. I have a rough looking manual if that's what it is called which came from the owner. It looks hand typed and manually drawn. I ordered a copy from "Vintage" and got the same thing!! I wonder if anyone has ever seen a real type-set manual or if in fact there ever was one made. My 400 was owned by the original owner and was purchased with his "mustering pay" from the army after WWII. It is in mint condition. The coils were sold as options. You might have fun trying to find all of them but they are out there. It will work all bands with proper coils. The 160M band will require an additonal glass or ceramic 35pf accross the tank cap to resonate. Mine stays on 160 and sometimes on 75 and 40 when I feel energetic about pulling coils.

Leo built a beautiful transmitter. It is my favorite Globe King although maybe not the fanciest or most powerful. I have a 500 and a 350 along side. The cabinet is a blue wrinkle finish, dark gray panels faces with black accent and lettering. The chassis are all black wrinkle finish and a beauty to see. The final loads nicely into a 50 ohm load unlike its 500 series younger brother. The rig is built with solid components and runs quietly at full tilt something I could never say for any of my Johnsons.

I can copy what I have in the way of a manual for postage.

Tim WA0TSY  
thaake@bsm2ee1.attmail.com

From boatanchors@theporch.com Mon Sep 11 22:07:00 1995  
From: don merz <71333.144@compuserve.com>  
Subject: Heath, Ranger II Grapevine  
Message-ID: <950911203446\_71333.144\_DHQ60-1@CompuServe.COM>

In the grapevine, I heard....

- a guy named Gary Fisher is holding a Heathkit yeard sale in Grand Rapids, Michigan with (he claims) many new parts and unbuilt kits. It's this Thursday and Friday the 14th and 15th. Call him at 616-241-1561

-

- another guy named George Zachmann has a Johnson Ranger II for sale for \$140. E-mail him at 74223.3053@compuserve.com

Good luck.  
73, Don

From boatanchors@theporch.com Mon Sep 11 17:13:00 1995

From: Nick England <nick@cs.unc.edu>  
Subject: HP 606A invasion  
Message-ID: <199509111915.PAA06772@altair.cs.unc.edu>

Tom's \$45 HP 606A reminded me - I was looking for one of these things for about 2 years at various hamfests. I finally bought one from friend - then boom 2-3 of 'em were at Shelby and I'll bet 10 of 'em at Gaithersburg - places where there were 0 last year. Somebody opened the flood gates as soon as I finally got one !!

Nick KD4CPL

From boatanchors@theporch.com Mon Sep 11 22:07:00 1995  
From: Brien Pepperdine <pepperb@gov.on.ca>  
Subject: HQ-170A problem solved.  
Message-ID: <Pine.OSF.3.90.950911174108.12813C-100000@govonca2>

No news here to you fellows, but here is the fix.  
I did take one tube that seemed to be unique to the non-working 80 m / 160 m. section of my 170A. Tube was OK. HmMMMM.

OK, well over the weekend I got a flea market deal on an EICO dynamic tube tester. So lets get checking. Well, the radio had worked fine on 40 m and up, but not on 80/160. Nonetheless, the 6C4 oscillator tube was very leaky on one test, and the Merit was no-go. So off to the garage where I found quantity four of the tube. Test em all, all are OK. So swap one in, and the radio is fine on the two previously bad bands, and cw note is very good, ssb is not muddy, but nice, as it should be.

I will ponder the schematic after my job subsides in order to figgger out why the 6C4 would work for 40 et al, but not the 2 bands I wanted for AM (80 and 160m). I am glad its done. Hum seems a bit less too, maybe, or I am just happy with it working. I will look at the audio transformer caps and other ps caps later. But I also think a transformer between the heaphone jack and my 8 ohm walkieman headphones might help too.

Thanks for those who helped - esp. the fellow who pointed out the 6C4 had been a devil for him. Another lesson learned.

Brien  
Toronto

From boatanchors@theporch.com Mon Sep 11 22:07:00 1995

From: Steve Ellington <n4lq@iglou.com>  
Subject: Re: HQ-170A problem solved.  
Message-ID: <Pine.SOL.3.91.950911182501.2840B-100000@iglou>

>  
> Thanks for those who helped - esp. the fellow who pointed out the 6C4 had  
> been a devil for him. Another lesson learned.  
>

I'll take the credit for that one. Now I have an Hq140x on the bench with  
the exact same problem. Hum on cw notes above 20 meters. That 6c4 test  
good on elcheapo tester but I know better. Those tubes are peskey little  
hummers eh?

Steve  
n4lq@iglou.com

From boatanchors@theporch.com Mon Sep 11 17:13:00 1995  
From: ab174@rgfn.epcc.Edu (Anibal Perez)  
Subject: I have to said goodbye ....for awhile  
Message-ID: <9509111536.AA16650@rgfn.epcc.Edu>

Hey guys,  
I really enjoy ur list but i have to go....  
Due to a change of job i will not have a computer so  
i'll have to depart...it relly enjoyable...tnx to  
everybody.....  
P.S. I would like to have a knob for my Drake....  
and I have 3 relays for the NCX-5 if somebody would  
like to trade something?????  
I'll be here ti'll thursday  
ADIOS

--  
AC5EJ EL PASO,TX.  
"ACTION CURES FEAR"  
ex-ka4kai ex-kp4zn  
-----

From boatanchors@theporch.com Mon Sep 11 09:58:00 1995

From: paul Veltman <veltman@netcom.com>  
Subject: ID the list folks.  
Message-ID: <Pine.3.89.9509101101.A22680-01000000@netcom13>

Hey Gang,

I remember a long time ago there was a discussion on t-shirts or hats or something that would identify list folk from the "mundanes" at hamfests or swaps. :-)

Any ideas still alive, or did it die from lack of interest. If we can't get national interest going, how about you Foothill and Livermore regulars.

73

Paul WA6OKQ

From boatanchors@theporch.com Mon Sep 11 17:13:00 1995  
From: "Jack Giehl" <JACKG@s1.xetron.com>  
Subject: Johnson Xtal Oscillator Problem  
Message-ID: <1081DFB1721@s1.xetron.com>

Dear BA enthusiasts,

I bought some FT-243 crystals at the Findlay hamfest for the 40 and 80 meter Novice bands. The crystals confirmed what I had suspected. Both my Johnson Ranger and Valiant have oscillator trouble using these crystals and some others I have.

The oscillators just don't want to start reliably. I haven't played with oscillator feedback values or anything like that yet. Both units have oscillator tubes with good emission.

Anyone out there had similar experiences, or seen modifications to make the crystal oscillators more reliable?

Jack

73,

=====  
Jack, WB8BFS  
jackg@xetron.com      Loveland, Ohio (near Cincinnati)  
=====

From boatanchors@theporch.com Mon Sep 11 22:07:00 1995  
From: Brien Pepperdine <pepperb@gov.on.ca>  
Subject: Knob for Apache ?

Message-ID: <Pine.OSF.3.90.950911163622.7661C-100000@govonca2>

Does anyone have available any knobs for the Apache ( I think same knobs are on Apache, Mohawk, Cheyenne, Comanche - maybe more models too).

I was given an Apache last week - supposedly resurrectable once I repair the bronze phospher band that broke (and is missing, along with the two things it screws into that allow the final to be tuned). If you know the Apache, you'll know the band. Anyhow, the band broke, and the guy did not end up fixing it, so I got it, along with the SSB adapter. All knobs had been removed for the repair that was not done in the end, and I got the knobs in a bag, sans one knob.

So I am looking for a knob (if you have some or one, I'll let you know the size I need, for now I am just casting for chances).

Also, I think I might be able to somehow fabricate or sub. something for the two things that drive the phospher band from the FINAL knob up to the finals cage. If you do have the things, or have a sub. or an idea, I really would like to hear your idea/sub/parts input.

Thanks

Brien  
Toronto

pepperb@gov.on.ca

From boatanchors@theporch.com Mon Sep 11 22:07:00 1995

From: Jack Taylor <n7oo@hereford.ampr.org>

Subject: Re: Knob for Apache ?

Message-ID: <199509112254.RAA04205@uro.theporch.com>

I too could use the Apache 'driver' knob...this \*looks\* to be the smallest knob on the front panel.

The long phospher band on my unit was replaced with a section of RG-8 coax braid, soldered on the ends, and attached to the shaft. Looks like this is a reasonable work-around, tho I'd prefer to have the original band.

73 de Jack

At 03:48 PM 9/11/95 -0500, Brien Pepperdine wrote:

>

>Does anyone have available any knobs for the Apache ( I think same knobs  
>are on Apache, Mohawk, Cheyenne, Comanche - maybe more models too).

>  
>I was given an Apache last week - supposedly resurrectable once I repair  
>the bronze phospher band that broke (and is missing, along with the two  
>things it screws into that allow the final to be tuned). If you know the  
>Apache, you'll know the band. Anyhow, the band broke, and the guy did not  
>end up fixing it, so I got it, along with the SSB adapter. All knobs had  
>been removed for the repair that was not done in the end, and I got the  
>knobs in a bag, sans one knob.  
>So I am looking for a knob (if you have some or one, I'll let you know  
>the size I need, for now I am just casting for chances).  
>  
>Also, I think I might be able to somehow fabricate or sub. something for  
>the two things that drive the phospher band from the FINAL knob up to the  
>finals cage. If you do have the things, or have a sub. or an idea, I  
>really would like to hear your idea/sub/parts input.  
>  
>  
>Thanks  
>  
>Brien  
>Toronto  
>  
>pepperb@gov.on.ca  
>

From boatanchors@theporch.com Mon Sep 11 22:07:00 1995  
From: Sheldon Wheaton <swheaton@tyrell.net>  
Subject: Re: Knob inserts  
Message-ID: <Pine.SUN.3.91.950911172952.8791J-1000000@tyrell.net>

Clock mainsprings are probably a pretty source of the spring material, and can be easily be cut with a Dremel tool using one of those carborundum type wheels. A lot of "spring steel" parts are formed from sheets of spring steel that is already tempered. Try to use large bend radii as sharp bends can cause breakage or loss of "springiness".

Beryllium Copper is great spring material, but must be tempered after forming. Most common alloys can be heat treated at 300 to 400 deg. F for 2 hours, preferably in an inert gas environment to prevent oxidation. You might want to take a close look at the MSDS before doing any grinding...pretty toxic stuff to be breathing in.

Another popular sheet spring material is phosphor-bronze, but I can't submit any personal knowledge on this material.

73, Sheldon KC0CW

From boatanchors@theporch.com Mon Sep 11 22:07:00 1995  
From: "David W. Barts" <davidb@ce.washington.edu>  
Subject: Re: Little knob spring inserts  
Message-ID: <Pine.HPP.3.91.950911143528.14041I-100000@atlas.ce.washington.edu>

On -1 xxx -1 Michael.J.Knudsen@att.com wrote:

> The trouble with cutting inserts out of tin cans or whatever is that  
> they don't have the springy resilience. With such a substitute, you can make  
> the knob really hard to push onto the shaft, so you feel like you've got a  
> really tight fit. Then as soon as you turn the knob a couple times, it's loose  
> and falls right off.

I've had good luck making them out of material cut from steel ("tin") cans. Secret is that the material is different (thinner) from the original, so a different construction technique is called for. The original knob inserts are shaped like (connect the dots with a curved line for actual picture):

. .  
.  
.

If you make one of this shape with steel can stock, it will surely fail. Secret is to use approximately twice as much material and make them like (again, connect dots with curved lines):

. ' . .  
.  
.  
.  
.

Insert so that the left (folded) end faces the opening at the back of the knob. The spacer will take up more space in the knob than the original, and as you insert the knob onto the shaft, it will be a tight fit the first time and the fold will get compressed slightly. This compressed fold has more than enough stiffness, in my experience, to hold the knob securely.

An added bonus is that if you cut the material so it fits very snugly, it won't come out of the knob again and you need never worry about losing the insert.

Another possibility would be to head into the street the next time a street sweeper comes by, collect a few lost brush bristles, anneal one so that it can be cut and shaped, then re-harden the result. One could also cannibalize them out of spare knobs bought from a surplus or used



parts house. But the steel can approach has worked well enough for me.

David Barts N5JRN  
davidb@ce.washington.edu

UW Civil Engineering, Box 352700  
Seattle, WA 98195-2700

From boatanchors@theporch.com Mon Sep 11 17:13:00 1995  
From: pbock@melpar.esys.com (Paul H. Bock)  
Subject: Looking for 50 to 90-watt xmtr  
Message-ID: <9509111628.AA12173@syseng1.se.melpar.esys.com>

I'm interested in picking up a 50 to 90-watt xmtr,  
tube-type, crystal-controlled. If it also has AM that's OK,  
although I won't use that mode. Prefer a working unit which is  
not too beat-up looking cosmetically, but will consider anything  
from "complete but non-working" up to VGC (\*not\* interested in a  
a "mint" collectible).

Typical units which interest me are any of the following:

Globe Scout or Globe Chief  
Eico 720 or 723  
Johnson Adventurer or Challenger  
Drake 2NT  
Heath DX-20, DX-35, or DX-40

E-mail replies to pbock@melpar.esys.com

Yes, I know, I should have been at Gaithersburg, but I  
realized Friday that the VHF Contest was this past weekend and I  
\*NEVER\* miss the September VHF QSO Party (picked up some new  
2-meter grids, too!).

73,

Paul, K4MSG

From boatanchors@theporch.com Mon Sep 11 22:07:00 1995  
From: TOM.A.ADAMS@mail.admin.wisc.edu  
Subject: LORAN & Other insanity  
Message-ID: <F9BK3207.F9BK3219@mail.admin.wisc.edu>

to: boatanchors@theporch.com

Hello Neal.

You're not the only battle scarred veteran from the 160 metre LORAN wars! I served my time too, and if you think things were bad down on the Gulf of Mexico, you shoulda heard those damned things up here on the Great Lakes! We had a master station on Lake Erie, over in Ohio.

As long as we shared the band with LORAN, nobody took 160 seriously as a useful ham band. About the only operations was scattered, crosstown stuff in some areas. I've frankly been amazed at what has gone on there since the last of the pulsters went QRT; in the '60, I'd have never believed that today I'd have 8 or 10 countries on the band without really trying hard!

Besides the antenna problems inherent with being a city dweller trying to work 160 (in Chicago the troops were partial to loaded verticals, 40 - 75 feet high), the biggest stumbling block was the power limitation table. THAT damned thing was a lot like trying to read a railroad schedule, and it all changed at sunset! Around Chicago, the South Siders were partial to the bottom segment (1800 - 1825 KHz), specifically 1810 KHz. As I remember, the North Side gang stuck pretty close to 1915 KHz. For us South Siders, the nighttime power limit was, I think, 100 watts. Daytime operations were permitted 500 watts, but no one in his/her right mind tried to work 160 during the daytime, unless all you wanted was groundwave rag chews over about a 20 mile radius. Me and a high school buddy used to use the band on Saturday afternoons to play chess by radio. We had a good time, but it was never real effective; the boards would always get out of sync...

"This is WA9QMB. Hey Bob, knight to king's bishop three. Check and Mate. Gotcha, Sucker! Over!"

"You're nuts! That knight isn't anywhere NEAR my king! Over!"

"Break, break!"

"Go breaker."

"Tom's right. You're in mate."

"WHO ARE YOU???"

"Breaker!"

"Go Break!"

"Naw, Bob's right. Ain't no WAY that knight attack is in striking range!"

"WHO SAID THAT?"

"Hey Tom, where have you got my king?"

"King's knight one. Break!"

"KING'S KNIGHT ONE??? I took him outa there a dozen moves ago!"

"Break break"

"Dump it in, breaker!"

"Hey, Jim up on the North Side is on crystal control. He asked me to tell you that Bob's right! He says he's followed the game since the first move!"

"Hey, who the heck believes HIM??? He's got local QRN, and he's so old he's half deaf anyway! Besides, this is a South Sider game; he's got no say on this side of town! I say Bob's in check! Ain't that right, Tom?"

...and so on, into the deepening dusk.

Years later, my sister confessed that sometimes she'd come in when I left the room and move a few pieces around. It was her revenge for me getting into her hi-fi.

But, I digress.

LORAN was a major pain in the butt... er, "challenge", as the currently popular euphemism calls it.

It was impossible to operate within 15 KHz of the two hot frequencies, 1850 KHz and 1950 KHz. Trying to was a classic case of trying to spit into the wind; a 50 watt CW signal didn't have a prayer, and you could forget AM. You'd get chewed to bits by multimewatt pulses. It was rough for 25 KHz on either side, but you COULD make a go of it, if you really had to.

I used to have the most useless thing in the world; a crystal for 1850 KHz.

I remember a number of pulse blanker circuits in QST for dealing with the big, bad LORAN monster. None of 'em were worth a damn.

Interestingly, a lot of the same circuits reappeared when the Russian Woodpecker took up residence on HF. To recycle a circuit, all that was necessary was to change a few R/C constants to the Woodpecker's slower pulse repetition rate.

Ironically, I was a bit sad to see the LORANs decommissioned, and as they disappeared from the air one by one I kinda missed 'em. I dunno... I've always been a bit suspicious of the advantages of progress.

73's,

Tom, K9TA

From boatanchors@theporch.com Mon Sep 11 17:13:00 1995  
From: Bill VanAlstyne <bill@cruz.com>  
Subject: Re: Marconi's Early Years  
Message-ID: <199509111534.AA17562@cruz.com>

At 05:59 PM 9/5/95 -0500, Simon Buxton wrote:

>Many of you requested further details about Peter Jensen's book so here  
>they are  
>

>Title : "In Marconi's Footsteps - EARLY RADIO"

[snip..]

>I believe their US agent is "Seven Hills Books" in Cincinnati, but don't  
>know their address.

For anyone in the US interested in more specifics on this --

Seven Hills Books in Cincinnati does have the book available for mail-order.  
Their phone number is (513) 381-3881. The price is \$39.95 plus \$3.95  
shipping. VISA or MC accepted. Mine's on the way!

Thanks, Simon.

Bill VanAlstyne, N6FN  
bill@cruz.com

From boatanchors@theporch.com Mon Sep 11 22:07:00 1995  
From: Simon Buxton <sbuxton@ccf.health.nsw.gov.au>  
Subject: Re: Marconi's Early Years  
Message-ID: <Pine.PMDF.3.91.950912095437.538987701A-100000@health.nsw.gov.au>

Gang,

Sorry, I got the Internet address of the WIA wrong on the last posting  
- see below for correct one.

Title : "In Marconi's Footsteps - EARLY RADIO"

Author : Peter R. Jensen

You can purchase from the WIA of NSW (similar to ARRL here) who have it on their stock list and whose Internet address is:-

wiansw@SYDNEY.dialix.oz.au

\*\*\*\*\*  
Simon Buxton VK2EII Sydney, Australia  
E-mail : sbuxton@ccf.health.nsw.gov.au Compuserve :100352,1612  
\*\*\*\*\*

From boatanchors@theporch.com Mon Sep 11 09:58:00 1995  
From: dsnowden@ccd.harris.com (Doug Snowden)  
Subject: Melbourne Hamfest  
Message-ID: <9509111207.AA301975@rs2.ccd.harris.com>

Was a good one this year. On Saturday the tailgating section was packed. Typical Saturday afternoon rain at about 1pm drove many away. Not just rain but a gully washer. Sunday tailgating was pretty sparse. As usual, lots of computer stuff that I pass by. I was on a mission to only buy RF parts (coils, chokes, tubes, etc.). You don't find much of that sort of stuff now days, since there aren't a lot of builders. BUT, I realize now that since there aren't a lot of builders, you still have a good chance to pick up what there is, since most aren't interested in RF parts. I managed to buy a box full of transmitting capacitors, a B&W FC30 choke, a B&W850 coil, turns counters, a nice roller inductor, etc etc for \$25 !!! I also picked up several 30kv doorknob caps (new) for \$1 each !!! It seemed that people just didn't know what it was, and its value. I bought an 813 tube for \$1.00, no lie !!! I picked up a 45 pound box of power transformers for \$5.00. As I say, there wasn't a lot of this stuff there, and it seems like I got it all....

As for equipment, very little Collins, very little if any military ba's. Lots of Heath stuff. DX60 DX35 and associated stuff. There was some antique broadcast receivers that tempted me.....

Anyway, it was a good fest, and I'd say it is one of the best in Florida. I hope some of you make it down here one year - maybe one that has no rain that weekend. My yard is a swamp, it has rained so much this year. Our mini-hurricane we had here damaged my screen enclosure for my pool and it still has not been fixed... Guess they are still catching up..

Anyway - question, the B&W850 coil I got is in the usual condition of many you see.. The close spaced turns are melted and drooping. Does anyone have the specs on this coil, so I can buy another section of Air-Dux or B&W stock to replace the bad section????

73, Doug N4IJ dsnowden@ccd.harris.com

From boatanchors@theporch.com Mon Sep 11 22:07:00 1995  
From: thaake@bsm2ee1.attmail.com (thaake)  
Subject: RE:Neutering 32S3  
Message-ID: <PMX-TERM-2.02-bsm2ee1-thaake-82>

MIke w9nrd,

I agree with using a rcvr for doing the neutralization. Infact the KWS-1 procedure calls for using the receiver in one of its steps and adjusting for minimum S-meter.

Tim WA0TSY  
thaake@bsm2ee1.attmail.com

From boatanchors@theporch.com Mon Sep 11 22:07:00 1995  
From: haynes@cats.ucsc.edu (Jim Haynes)  
Subject: Nice people  
Message-ID: <199509120138.SAA29491@hobbes.UCSC.EDU>

Up until recently I used to use my BA receiver to (among other things) listen to BBC nearly every night. Suddenly they disappeared from the air. So I wrote to an email address I saw posted for BBC asking whether it was a schedule change or sunspots that made this happen. Today I got a nice reply saying that it was neither schedule change nor sunspots, but rather hurrican Luis that destroyed their relay station in Antigua; and that they are still broadcasting on the same frequencies from England but they can understand why I might not be able to hear them. And that they are working to get Antigua back on the air.

From boatanchors@theporch.com Mon Sep 11 22:07:00 1995  
From: jmartin@hrlban1.aircrew.asu.edu  
Subject: Phosphor bronze band for Apache  
Message-ID: <SA39+l3AJka@hrlban1.alhra.af.mil>

The phosphor bronze band from the Apache sounds similar to the thin phosphor bronze band used in late 1920s Atwater Kent radios to gang the

tuning condensers together (i.e. AK-49, AK-60, etc.) New replacement band material for these antique sets is available from (you guessed it) Antique Electronic Supply, and it might work in the Apache application too.

73, John Martin

jmartin@hrlban1.aircrew.asu.edu

From boatanchors@theporch.com Mon Sep 11 22:07:00 1995

From: gcarter@Libris.Public.Lib.GA.US (Greg Carter)

Subject: Prater's Mill Swapfest BA sightings

Message-ID: <9509120149.AA25641@Mail.Public.Lib.GA.US>

Hello BA types:

I had the pleasure of attending the Prater's Mill Tailgate affair again this year (Dalton, Ga) and it remains one of my favorite ham/swap fests in this area!

Some of the BA's there:

Hammarlund HQ-129X	\$150	Very Good cndx...wish I'd had more money!
R-388 (2 of 'em)	\$275	refurbished/in a Hewlett Packard cabinet!
	\$375	refurbished/in a Bud style cabinet
E H Scott RBO	\$ 60	Fair cndx/
SX-101A	\$200	Good cndx/non-original tuning knob
Knight Kit R-100	\$ 75	Very nice/ restored by K4FXB
Hallicrafters S40A	\$ 85	Looked excellent/refurbished by K4FXB...I wanted this one but waited too late...went for \$60!
Hallicrafters HA-2	\$ 10	very poor but looked complete
Hallicrafters HT-33B	offer	Parts radio...no tube/front panel poor
Swan 500C /117XC ps	\$125	No final tubes/radio was very clean
Swan 350 no p/s	\$ 50	Owner not sure if it worked/ fair cndx
Drake TR4CW/rit		
RV4C/AC4	\$450	Looked like new/ serial # 45xxx
Hallicrafters S38E	?	Good cndx
Hallicrafters VHF Rx	\$ 20	Can't remember the model....tuned 30 - 50 mc. Circular dial in middle of front panel. Good cndx
Heath SB-200	?	Good cndx
Heath HW-10 Shawnee	free	owner was ready to leave and my pick-up truck had an empty space available!
Heath HG-8 Signal Gen	\$ 10	I got this one and it works!! Looks good too.
Drake TR-3/ps/spkr	\$175	Good shape
Drake B-line	\$275	Fair to good

There were several other Drake pieces which I just can't remember and also others that I'm sure I'm leaving out. Really kick myself for waiting so long on the S40A...lesson learned!!

There were also quite a few guys there with tubes...I managed to find 4 NOS

JAN 1625's for \$1 each...thought I'd take a chance in case the DX-100 goes wild one day!

Lot's of good building parts and components and various other oldies that were fun to look through.

I saw the stack of Command Receiver parts radios that Larry KQ4BY grabbed... Larry, you'll have lots of fun with those!!!

And now for the best deal of the swapfest.....

I managed to acquire a "free for the taking" ART-13 parts rig compliments of Larry (I've already had mucho fun dis-assembling this thing!) Tnx Larry!

Well sri for being so long .... hope to see some of y'all at Prater's Mill next year...big fun!

73      Greg  
         KX4R

From boatanchors@theporch.com Mon Sep 11 09:58:00 1995  
From: Schroeder.Wbst207V@xerox.com  
Subject: PRO-310 "info"  
Message-ID: <"11-Sep-95 9:20:18".\*.Schroeder.wbst207v@Xerox.com>

>Managed to spend a few minutes at the AWA meet in Rochester NY this noon,  
>saw a PRO-310 on one of the tables. The owner was not available so I  
>couldn't get a price or address. Will try to go back and get the info if you  
>drop me a note.

The PRO-310 / owner was not present during the Friday or Saturday AWA sessions. Don't know if the receiver was sold or went back home. It looked good from the outside based on quick look. Based on the number of responses received I thought the reply should go to the group.

Russ W2DYY

schroeder.wbst207v@xerox.com

From boatanchors@theporch.com Mon Sep 11 17:13:00 1995  
From: haynes@cats.ucsc.edu (Jim Haynes)  
Subject: Re. Coded signal ident  
Message-ID: <199509111844.LAA29089@hobbes.UCSC.EDU>



>From pbock@melpar.esys.com Mon Sep 11 06:20:18 1995

>Tom sez:

>> The "aircraft engine" signals you used to hear weren't necessarily coded.

>>These beasts were VFT, or Voice Frequency Telegraphy.

>> Essentially, they were stacks of 8, 16, or 24 narrow shift AFSK signals  
>>that were used to modulate an SSB transmitter; i.e., they were multiplexed  
>>RTTY.

> All quite true. In Navy parlance, however, the acronym was  
>"VFCT" for "Voice Frequency Composite Tones" (or "Telegraphy,"  
>depending on whom you ask). The signal was commonly referred to  
>as a "tone package," i.e., 8-channel tone package, 16-channel  
>tone package, etc.

A couple of side-notes to the above. (1) back in the late 50s & early 60s the military was also using some time-division multiplex. When I worked for Teletype in 1958 and 1959 we were building solid state muxes to a Navy contract: AN/UGC-1 was a four channel mux and AN/UGC-3 was 16 channels. There was also a thing that converted the 16 channel signal into, I think, individual synchronous channels so they could be encrypted. I don't know much about this AN/UGA-1. Although it wasn't classified they just didn't talk about it because of its relation to crypto. The UGC-1 replaced, and would interoperate with, the AN/FGC-5 which was a tube-type four channel mux. You could hear these on the air back then; we had a CV-89 and a prewar Super-Pro receiver in our lab at Teletype and would occasionally tune in mux signals for fun. I don't know if any of this stuff is still in use today.

I used to pick up "airplane engine" sounds on a home shortwave receiver back in the 1940s. Dunno if they were using VFCT back then. Seemed like the signals were always very strong. I asked my uncle, a ham and broadcast engineer, what they were and he said he thought they were high speed telegraphy. This is plausible because back in those days (and into the mid 1950s) the ads in the back of the ARRL Handbook included one from T. R. McElroy Co. of Boston. They made a line of high speed Morse equipment. There was a sender that ran from perforated paper tape (two holes plus the feed holes, same stuff that ARRL used in the early days for the code practice runs). And there was a receiver that recorded in ink on paper tape; then the tape was pulled across a bridge over a typewriter so the operator could translate the Morse to typing. In one of the ads - and I don't seem to possess that issue of the Handbook anymore, so I can't say which one - there was a Morse reperforator that would produce punched tape from the received signal, and then a printer (made by Creed of England, I think) that would produce printing from the punched tape.

Is anybody out there familiar with either of the above, can tell us the history of them?

From boatanchors@theporch.com Mon Sep 11 17:13:00 1995  
From: pbock@melpar.esys.com (Paul H. Bock)  
Subject: Re. Coded signal ident  
Message-ID: <9509111929.AA16817@syseng1.se.melpar.esys.com>

>I used to pick up "airplane engine" sounds on a home shortwave receiver  
>back in the 1940s. Dunno if they were using VFCT back then. Seemed like  
>the signals were always very strong. I asked my uncle, a ham and broadcast

Don't forget the old LORAN-A signals between 1600+ and 2000 kHz, which were \*VERY\* prolific in the '50s (there were lots of master-slave pairs receivable on any shortwave receiver). In addition, the USSR "buzz-saw" jamming could be found in other parts of the HF spectrum where the Russians were jamming the Radio Free Europe (RFE) broadcasts; there were a lot of these as well. This jamming died out in the early '60s with the end of the RFE broadcasts.

Bottom line is that unless you have a recording of a specific signal from the period in question, or specific frequency information which might be correlated back to a specific usage, you will probably never be able to do more than guess at what you were hearing. There was \*lots\* of weird stuff on the air then (and now, too!).

73,

Paul, K4MSG

From boatanchors@theporch.com Mon Sep 11 22:07:00 1995  
From: Neal McEwen <nmcewen@metronet.com>  
Subject: Re: Re. Coded signal ident  
Message-ID: <199509112329.AA26371@metronet.com>

> Don't forget the old LORAN-A signals between 1600+ and 2000  
> kHz, which were \*VERY\* prolific in the '50s (there were lots of

Anybody else have heartburn from LORAN when working low end of 160 meters ? I remember having terrible headaches after working the band with my R4-B and Johnson Ranger. I tried all sorts of RCV antennas to notch it out. Finally got about a 20db notch with a tuned indoor loop. LORAN is really bad when you live 300 miles from the coast!!!!!!!

--

73 de K5RW            - Neal McEwen                                - Richardson, TX (Dallas)  
\*\*\*\*\* I collect old telgraph and wireless telegraph keys \*\*\*\*\*  
amprnet            - k5rw@k5rw.ampr.org                                - home (214) 234-1653  
HomeNet            - nmcewen@metronet.com                                - OS/2 tcp/ip SLIP  
HomePage            - [http://fohnix.metronet.com/~nmcewen/techno\\_weenies.html](http://fohnix.metronet.com/~nmcewen/techno_weenies.html)

From boatanchors@theporch.com Mon Sep 11 22:07:00 1995

From: Neal McEwen <nmcewen@metronet.com>

Subject: Re: Re. Coded signal ident

Message-ID: <199509112348.AA01851@metronet.com>

> the signals were always very strong. I asked my uncle, a ham and broadcast  
> engineer, what they were and he said he thought they were high speed  
> telegraphy. This is plausible because back in those days (and into the  
> mid 1950s) the ads in the back of the ARRL Handbook included one from  
> T. R. McElroy Co. of Boston. They made a line of high speed Morse equipment.  
> There was a sender that ran from perforated paper tape (two holes plus  
> the feed holes, same stuff that ARRL used in the early days for the code  
> practice runs). And there was a receiver that recorded in ink on paper  
> tape; then the tape was pulled across a bridge over a typewriter so the  
> operator could translate the Morse to typing. In one of the ads - and I  
> don't seem to possess that issue of the Handbook anymore, so I can't say  
> which one - there was a Morse reperforator that would produce punched tape  
> from the received signal, and then a printer (made by Creed of England,  
> I think) that would produce printing from the punched tape.

>  
> Is anybody out there familiar with either of the above, can tell us the  
> history of them?

>

I have one of the McElroy high speed recording devices in my collection.  
It is an awesome looking beast. It is designed to hook to the output of  
and HF receiver. And of course it produces paper tape. It has a  
bunch of Octal tubes. I recall that one is a 6SN7. I dont have any  
tape for the thing but I think RTTY tape could be made to work.

Creed made devices that read paper tape. I have one such device that  
was used on under-sea cables. An operator would punch up a paper tape  
or should i say many operators would punch up paper tapes from telegrams  
(cablegrams) and que them up for the paper tape reader operator. The  
tape was read and transmitted at 400 words per minute. This way, the  
cable time was maximized. The Creed that I have came off of the Florida  
to Havana cable. It is also an awesome looking beast. Mostly iron,  
probably weights close to 35 pounds, a really weired looking motor  
to pull the tape.

Now, having said all this, the McElroy recorder does not really fit  
in my collection. So,... I will GIVE it to anyone that wants to come

pick it up. I would like to find it a good home. I got it from a scrap metal dealer about 10 years ago and its been sitting in a box in the garage ever since. Any takers ?

--

73 de K5RW            - Neal McEwen                                - Richardson, TX (Dallas)  
\*\*\*\*\* I collect old telgraph and wireless telegraph keys \*\*\*\*\*  
ampnet               - k5rw@k5rw.ampr.org                               - home (214) 234-1653  
HomeNet              - nmcewen@metronet.com                           - OS/2 tcp/ip SLIP  
HomePage             - [http://fohnix.metronet.com/~nmcewen/techno\\_weenies.html](http://fohnix.metronet.com/~nmcewen/techno_weenies.html)

From boatanchors@theporch.com Mon Sep 11 22:07:00 1995  
From: Jeffrey Herman <jeffrey@math.hawaii.edu>  
Subject: Re: Re. Coded signal ident  
Message-ID: <Pine.SUN.3.91.950911144130.6508A-100000@kahuna>

On Mon, 11 Sep 1995, Neal McEwen wrote:

>                LORAN is really  
>                bad when you live 300 miles from the coast!!!!!!!

Sorry, Neal - no pity from here. I used to live in San Clemente, CA. The Coast Guard planted one of its LORAN transmitters not 2 miles from my QTH (San Mateo Point - right next to President Nixon's Western White House). It sure had a pretty antenna farm, though.

Jeff NH6IL (ex WA6QIJ)

From boatanchors@theporch.com Mon Sep 11 09:58:00 1995  
From: pbock@melpar.esys.com (Paul H. Bock)  
Subject: Re. Coded signal ident.  
Message-ID: <9509111319.AA07342@syseng1.se.melpar.esys.com>

Tom sez:

> The "aircraft engine" signals you used to hear weren't necessarily coded.  
> These beasts were VFT, or Voice Frequency Telegraphy.

> Essentially, they were stacks of 8, 16, or 24 narrow shift AFSK signals  
> that were used to modulate an SSB transmitter; i.e., they were multiplexed  
> RTTY.

> The reason most of 'em disappeared (yes, there are still a few around) is  
> that these point to point circuits have mostly moved to satellite. BTW,  
> there is a 50 channel version of the same scheme on the birds.

All quite true. In Navy parlance, however, the acronym was "VFCT" for "Voice Frequency Composite Tones" (or "Telegraphy," depending on whom you ask). The signal was commonly referred to as a "tone package," i.e., 8-channel tone package, 16-channel tone package, etc.

The shift between MARK and SPACE for any particular RATT (Navy name for RTTY) signal was 85 Hz; the signals in a tone package were interleaved (the demux had \*VERY\* good audio filters!) with Channel 1 typically used as an orderwire for chatter between operators at each end. Needless to say, the amount of RF power present in a single channel was a fraction of the total power available, so for long-distance HF comms a ship with a 500-watt transmitter would be far better off using standard single-channel RATT (or several of same, depending on number of transmitters available and propagation conditions) than to try and mux using an 8-channel pack on a single transmitter.

VFCT was particularly useful by COMMSTAs (I spent two years at NAVCOMMSTA Sidi Yahia, Morocco) for Fleet Broadcast, since the various broadcasts (KUSN, KALD, KSUB, etc.) could be sent simultaneously on HF on selected frequencies with directional antennae, and using high-power 10 KW and 40 KW (AN/FRT-39 & AN/FRT-40) HF transmitters.

But satellite comms are \*MUCH\* better, believe me! When I served on USS BELMONT (AGTR-4) from 1964-68 we had a \*moonbounce\* system {AN/SRC-33 (XN-1)} which operated in the 1800-2300 MHz range and was capable of running two channels of standard RATT to either Cheltenham (MD) or Hawaii as long as the moon was 5 degrees up or more at both ends. It was like a landline! A portent of things to come, as it were.....

73,

Paul, K4MSG

From boatanchors@theporch.com Mon Sep 11 17:13:00 1995  
From: rdkeys@unity.ncsu.edu  
Subject: Re: Regular 40M BA hangout...  
Message-ID: <199509111350.JAA10033@cc01du.unity.ncsu.edu>

> > any BA people got a regular hangout on 40CW ?

>

> Not on CW, but on SSB of late (late==the last three weeks), I've run into

> plenty of folks either running old gear or nostalgic for old gear in and  
> around 7195.

For CW try 7020 or 7027, anytime between 2300 and 0200Z nightly.  
I try to be on as often as I can, but with winter coming on 40  
will slide and 80/160 will be the prime CW boatanchorin' territory.  
Try 3527 and 1812, anytime after dark.

73/ZUT DE NA4G/Bob

From boatanchors@theporch.com Mon Sep 11 22:07:00 1995  
From: jmartin@hrlban1.aircrew.asu.edu  
Subject: S-20R  
Message-ID: <SA39+uBAJka@hrlban1.alhra.af.mil>

Much is said about other models, but I don't recall seeing anything on  
Boatanchors about the S-20R. (Or did I just miss the discussions?) Anyone  
have any experiences to share regarding the S-20R? I have one, and plan to  
fire it up soon. Also, a friend of mine has been looking for an SX-88 (I  
believe that's the model). I've never seen one of these. Can anyone shed  
any light on this?

73, John Martin  
jmartin@hrlban1.aircrew.asu.edu

From boatanchors@theporch.com Mon Sep 11 22:07:00 1995  
From: Michael.J.Knudsen@att.com  
Subject: Re: S-38B follow-up  
Message-ID: <9509111826.AA04967@bock.ih.att.com>

Speaking of "jinxed" tube types...  
Has anyone ever had a metal 6C5 that was NOT microphonic,  
when used as the first audio stage, or a detector?

And I've had at least two metal 6K7s that heated up properly,  
as if drawing normal plate current (not just heater heat), but had  
absolute zero gain.

Microphonic 6C6 and 'SQ7s probably led makers of console radios  
to use rubber shock mounts under the chassis. The customer was supposed  
to loosen the chassis bolts, which were there only for shipping and moving.

Speaking of shipping bolts, I found a unique application -- the sliding  
coil catacomb of my NC-101X has a hole tapped into it that lines

up with a hole on the side of the case. Maybe the useless, mismatching screw in the back near the top is the bolt intended for use there. Makes sense you wouldn't ship a NC-100 series without locking down that big sliding weight! 73, mike k w9nrd

From boatanchors@theporch.com Mon Sep 11 09:58:00 1995  
From: don merz <71333.144@compuserve.com>  
Subject: S40A, BC683A, Fender FS  
Message-ID: <950911011947\_71333.144\_DHQ24-1@CompuServe.COM>

For Sale

CONTACT: Don Merz, N3RHT: 47 Hazel Drive, Pittsburgh, PA 15228.  
412-234-8819 (weekdays, EST or leave a message anytime).  
71333.144@compuserve.com

ELECTRO VOICE MICROPHONES (all with connectors but no cables)

Model 950 Cardax. Positively beautiful. With original EV 432A desk stand.  
\$85

Model 664 Dynamic Cardioid. Excellent. No stand. \$61

Model 664 Dynamic Cardioid. Excellent. No stand. \$61

FOR THE MUSICALLY INCLINED

Fender Twin Reverb tube-type guitar amplifier guts. Complete, working chassis with original knobs and nameplate. \$200 without tubes, \$250 with tubes.

GEAR

Military BC-683-A receiver. All original and complete except for the usual AC supply built in to where the dynamotor should be. 1942 contract date. Western Electric. Nice. \$69

Military BC-458A transmitter, part of SCR-274N. Electrical mods but no holes. No tubes. Rear connector changed to octal. Two internal covers missing. Easily restored to original. \$27

Hallicrafters S-40A general coverage receiver. All original--no holes and paint is very good, though not excellent. Dials work, all knobs original, silkscreening is excellent. Black with silver speaker grille. Manual photocopy included. Tested: unlistenable hum in audio but probably easily corrected. \$59

Elenco Power Gainer Compression Amplifier. 6" gray cube with 5 controls and power on/off toggle. Unmodified and excellent. So what's it good for? \$19

TRADE

Panoramic Model PCA-2T-200 Panadapter. Clone of Hallicrafters SP-44. This one has a very clean black wrinkle finish and works okay. Copy of original QST article included. Excellent. Serious trade wanted for something interesting in equal condition.

#### LITERATURE

Morecroft, Principles of Radio Communication, 1927. Hardback. Good condition. 1927. \$14  
1967 ARRL Handbook. Very good or excellent--slight cover wear. \$16  
1955 ARRL Antenna Book. Nice. \$9  
1968 ARRL Antenna Book. Binding coming apart. \$6  
Military TM-11-662 Basic Theory and Application of Electron Tubes. 185 8-1/2 x 11 pages. 1952. \$17  
ARRL Understanding Amateur Radio, 1971. George Grammar. \$7  
ARRL How To Become A Radio Amateur, 1974. \$5  
Ameco Amateur Radio Theory Course, 1975. \$2  
Military TM-11-624 Radio Set AN/MRC-2x, 1953. Covers BC-610/BC-342 RTTY truck and all components. \$19  
TM-11-851 Radio Set SCR-244-D/Radio Receivers R-274x, R-320x, and R-483x. (Hammarlund SP-600). 1953. \$27

#### WANTED

Manual or any information on military R-274/FRR receiver (Hallicrafters SX-73). TM-11-897 copy preferred.  
Manual or any information on military RTTY exciter unit 05B/FR. Made by Hallicrafters in 1949.  
Manual or any information on Electrocom FSC-250 Frequency Shift Converter.

From boatanchors@theporch.com Mon Sep 11 09:58:00 1995  
From: w7ni@teleport.com (Stan Griffiths)  
Subject: RE: Scope handle  
Message-ID: <199509110150.SAA24269@desiree.teleport.com>

>My 516 is a later model, and it has a blue and white handle. Not much  
>left of it, but it was blue!

Yep. They do disintegrate in time. If you haven't sent the check, put a note with it so I am sure to send the right handle to you. If you have sent it, I will probably remember.

>I picked up a manual for it from Manuals Plus in Wa. The book shows an  
>earlier version with PL-259 connectors. Mine has BNCs. There's also  
>something slightly different about the Sync switch, if I remember  
>right.



Yep, again. Earlier ones had UHF instead of BNC connectors. Earlier ones also had wrinkle finish instead of what Tek called "vinyl finish" which was actually just painted aluminum with a surface pattern impressed into the metal.

>What's a good substitute to use for the air filter? Mine's long gone.  
>Furnace filter screen?

Haven't found a good answer to that yet. Early scopes had a filter made of what I would describe as "shredded aluminum in an aluminum frame". I have never tried to chase down the original source of those to see if we can still get them. They were reusable indefinitely since you could wash them in water and re-spray them with water soluble "Filter Coat". So far I have been lucky enough to salvage what I need from parted out instruments. I am building a pretty good Tek wrecking yard but it takes a lot of space and it is hard to tell everyone what I have available.

Later Tek scopes used a black rubbery plastic filter material that was also washable in water and sprayed with "Filter Coat". I think these filters are attacked by atmospheric pollution and totally disintegrate in some geographic areas of the country. I think Tek intended that these be "throw-away" but they can sometimes be salvaged if they are not too far gone. Instruments shipped with the black plastic filters had an expanded aluminum screen installed between the filter and the fan blade to keep the fan from sucking the filter into the interior of the scope! The aluminum filters don't require this screen.

This filter info seemed to be of general interest enough so I thought it appropriate to post for all BA enthusiasts to read. I am counting on you guys to let me know when I stray too far from the point and post stuff nobody but me cares about!

Stan        W7NI@teleport.com

From boatanchors@theporch.com Mon Sep 11 09:58:00 1995  
From: wier@bobcat.etsu.edu (Bob Wier)  
Subject: RE: Scope handle  
Message-ID: <9509110349.AA16476@bobcat.etsu.edu>

|Later Tek scopes used a black rubbery plastic filter material that was also  
|washable in water and sprayed with "Filter Coat". I think these filters are  
|attacked by atmospheric pollution and totally disintegrate in some  
|geographic areas of the country. I think Tek intended that these be  
|"throw-away" but they can sometimes be salvaged if they are not too far  
|gone. Instruments shipped with the black plastic filters had an expanded

I've run into similar stuff in a number of applications. It was typically used as sound deadner. I've seen it in IBM Selectric typewriters (small aside - I bought one of these things NEW in 1979 for about \$950 - they are now being surplused out by the U. They go for \$5 apiece, or \$10 with typeball - sigh). Most recently I've see it in a Panasonic Electric Pencil Sharpener from about 1970.

Anyway, at this point the stuff disintegrates on touch (and makes a terrific mess)  
-

I guess it dries out or decomposes or something. Anyway, I've found that foam weather stripping from a hardware store makes a pretty good replacement - and it comes in various widths, thicknesses, and compressibility. Pretty cheap, too.

THANKS & 73 de WB5KXH

----- Round Up the Usual Disclaimers! -----  
Bob Wier, keeper of the Photo-3D, Icom radio (WB5KXH),  
Overland Trails, and Motorola HC11 mailing lists  
wier@bobcat.etsu.edu

"Kentucky women are possessed of strong stomachs. It is not  
considered an insult to invite them to take a drink."  
- Silverton Standard May 19th, 1901

From boatanchors@theporch.com Mon Sep 11 17:13:00 1995  
From: haynes@cats.ucsc.edu (Jim Haynes)  
Subject: RE: Scope handle  
Message-ID: <199509111800.LAA29019@hobbes.UCSC.EDU>

>From w7ni@teleport.com Sun Sep 10 18:53:11 1995  
>  
>Haven't found a good answer to that yet. Early scopes had a filter made of  
>what I would describe as "shredded aluminum in an aluminum frame". I have  
>never tried to chase down the original source of those to see if we can  
>still get them. They were reusable indefinitely since you could wash them in  
>water and re-spray them with water soluble "Filter Coat". So far I have  
>  
>Later Tek scopes used a black rubbery plastic filter material that was also  
>washable in water and sprayed with "Filter Coat". I think these filters are  
>attacked by atmospheric pollution and totally disintegrate in some

>geographic areas of the country. I think Tek intended that these be

I haven't done this in years, but I assume it's still true. If you're in a big city look in the Yellow Pages under air filters and you'll probably find some companies that deal in this kind of stuff. Years ago we used to do in-house maintenance on some DEC equipment and also on an old Burroughs mainframe. Prices of the air filter foam and the fiberglass filters for the Burroughs were awfully high when you bought the computer makers as spare parts. I found one of these air filter supply companies in the phone book; and they would sell us the plastic filter foam in bulk, and would custom-make fiberglass furnace-type filters in any size we wanted. They also dealt in the small particle air filters used on disk drives in that era.

From boatanchors@theporch.com Mon Sep 11 17:13:00 1995  
From: staples@staples.lbl.gov (John Staples)  
Subject: SP-600 Overloading  
Message-ID: <9509111830.AA00884@staples.lbl.gov>

>  
> Well, I had in fact looked up the 6BZ6 and since it was a "semi remote cutoff"  
> I decided not to try it in my SP600 -- until someone else suggested it.  
> The BZ may indeed overload on local stations -- and turning down the RF Gain  
> won't help, since that just pushes up the grid bias the same as AVC would.  
>

The cause of overloading in the SP-600 is the last i.f. stage cannot drive the agc rectifier hard enough to generate enough agc voltage. The trouble is most evident when tuning in strong local broadcast stations.

The problem can be easily remedied by replacing the last i.f. amplifier with a 6AH6, and then changing the bias on it by connecting a 10K resistor from the junction of R56 and R57 (the bias voltage divider for the last i.f. amplifier) to ground.

..John, W6BM

From boatanchors@theporch.com Mon Sep 11 09:58:00 1995  
From: Paul.Thekan@pgtp.varian.com (Paul Thekan)  
Subject: TAC -1 Ant. Tuner  
Message-ID: <9509101750.AA11094@pgtp.varian.com>

Greeting BAs'

Is there a Technical Material Corp. ( TMC ) expert

out there who could help on this. I bought at the Foothill meet yesterday a TAC-1 antenna tuner made by TMC. Its ' Physical size looks to be the same as the BC 939 that was used for the BC 610 xmtr , right down to its mounting feet. But thats where the similarity ends. On a faded instruction plate on top of the case , it talks about how to use the tuner with a HT-4 ! I beleive the HT4 was made by Hallicrafters and was the basis for the BC 610. Was there another HT 4 that was made by TMC ? Or was this tuner made to be used with the Hallicrafters. The tuner has a beautiful 2 stage roller coil and butterfly cap. Output can be a balanced or unbalanced line . Two panel meters can monitor either of the out put currents , up to 3 amps. Any insight about this tuner is greatly appreciated

Thank you  
Paul N6FEG

Paul Thekan - Speaking for Himself  
Paul.Thekan@pgtp.varian.com

From boatanchors@theporch.com Mon Sep 11 09:58:00 1995  
From: bsn@fusion.ph.utexas.edu  
Subject: Toroid Corp of MD address  
Message-ID: <v01520d00ac78e32bd60a@[128.83.112.144]>

Could one of you DC ares BA'ites provide me the address. tel no and fax number if available, of Toroid Corp. of Maryland? They were once located in Lanham but I think they have moved to a new location on the metro area.

Thanks,  
Barry W5KH

From boatanchors@theporch.com Mon Sep 11 17:13:00 1995  
From: Michael.J.Knudsen@att.com  
Subject: Re: Tube substitutions  
Message-ID: <9509111800.AA04928@bock.ih.att.com>

Well, I had in fact looked up the 6BZ6 and since it was a "semi remote cutoff" I decided not to try it in my SP600 -- until someone else suggested it. The BZ may indeed overload on local stations -- and turning down the RF Gain won't help, since that just pushes up the grid bias the same as AVC would.

Actually, I think the reason so much early-50s gear uses 6BA6 and 6BE6 is that they were the only ones available back then -- how much later did the 6BZ6 appear? Other than the 6AG5 I don't think the SP600's designers had much choice.

I really wonder at how many FM and TV front ends used sharp-cutoff RF stages. They must have wanted all-out fringe reception gain, and not worried about intermod and overload.

BTW my SP600 is pretty sensitive on the stock 6BA6s right up thru 6 meters, judging my the man-made static and local cordless telephones. Now if some \*hams\* actually started using that band.... 73, mike k w9nrd

From boatanchors@theporch.com Mon Sep 11 17:13:00 1995  
From: rdkeys@unity.ncsu.edu  
Subject: Re: Variable Capacitor Identification  
Message-ID: <199509111440.KAA12534@cc01du.unity.ncsu.edu>

> Darn good question, Jerry. Once (and only once) I actually measured  
> all the parameters of a particular variable cap including plate area,  
> spacing between plate, number of plates, and ground up the numbers to  
> determine capacitance. I'll never do that again. Too nearsighted now.  
>  
> BTW, here's a challenge (Bob?): Build an xmtr (almost) completely from  
> scratch - carbon for the resistors, foil and wax paper for the caps,  
> but a commercial tube is okay to use. The reason I suggest this is  
> I once built my own variable cap as a young pup. It's nice to know  
> such parts can be reproduced with a little engine-new-ity.  
>  
> Jeff NH6IL

Accepted challenge, that is....(:+{}.....

Cheapskates Variable Transmitting Capacitors for generic use (including antenna tuners, Hartley oscillators, and other assorted amateur radio contraptions, constructions, and conglomerations):

\*\*\*\*\*

1. Take a sheet of good heavy bakelite somewhat larger than a foot square, and mount upon your panel.
2. Take a sheet of thin copper plate or aluminium plate sized slightly smaller than the bakelite mounting plate, and affix thereto said bakelite sheet at the corners, taking care to use countersunk screws of appropriate size. When cutting out the plate, make a tab on one corner for affixing an electrical wire thereto.

3. Take a sheet of goodly window plane glass, approximately 1/8 inch thick, sized the same size as the bakelite plate, and mount carefully using thin dowel rods or small pieces of bakelite or wood and affix over the copper plate.
4. Take a second sheet of thin copper plate and mount over the glass plate with a screw through the tab to act as a pivot so that the plate can be pivoted over the glass and other copper plate to increase or decrease the capacity as desired. Affix a bakelite handle of some sort to the copper plate so that the hand is insulated therefrom when in operation.
5. Connect in your circuit, as desired.

NOTE: My mentor, N1KW used just such a device along with a self supporting coil of household electrical wire to make a fine series antenna coupler/tuner for 80 and 160 meters, when we were poor college lads, with nary a spare buckeroo to be had to put into boatanchorin'. Them were the days!

NOTE: An alternative form is the so-called book form variable capacitor as used on early Crosley receivers.

NOTE: Modern substitution of acrylic plastic for bakelite and glass is acceptable, but not of the one true Hartley oscillator form.

73/ZUT DE NA4G/Bob

From boatanchors@theporch.com Mon Sep 11 22:07:00 1995  
From: "Joseph J. Curry" <71407.1774@compuserve.com>  
Subject: VOX Unit  
Message-ID: <950911213414\_71407.1774\_FHV99-1@CompuServe.COM>

Fellow Boatanchorites:

I am looking for the Hallicrafters HA-16 vox unit that was meant to go with the SR-500 Tornado transceiver. Anybody have one of these little devils lurking in their cupboards?

If so, reply via e-mail.

Tnx es 73,

Joe KE6LFT

From boatanchors@theporch.com Mon Sep 11 17:13:00 1995  
From: John Shriver <jas@shiva.com>  
Subject: Re: Wanted: Telefunken EMM801 indicator tube  
Message-ID: <199509111442.KAA20186@shiva-dev.shiva.com>

The Telefunken EMM801 is indeed a dual-bar indicator tube. It is probably the single scarcest and hardest to find of all the indicator tubes. SND Tube Services (St. Louis, MO) had some a while ago for \$35 each. Maybe AES has some, they might even cost more.

Why so scarce? It was the tuning eye for the very common Dynaco FM-3 tuner. Lots of people are trying to keep those working. (Although at this age, they are all getting very flaky. The capacitor contacts in the IF cans are often flakey now. Not much of a peak when the cap is open.)

Also, I suppose the DoD never stocked any EMM801's, so they are never surplusing any. You see lots of MIL-surplus 6E5's.

I did find one new EMM801 in a box of \$1 tubes at a flea, but I'm keeping it as a spare for my own FM-3. (Which is presently laid up sick with a dead IF can!)

From boatanchors@theporch.com Mon Sep 11 17:13:00 1995  
From: Steven Wilson <randyw@crl.com>  
Subject: Re: Wanted: Telefunken EMM801 indicator tube  
Message-ID: <Pine.SUN.3.91.950911074910.3847A-100000@crl12.crl.com>

Is the 6E5 a similiar type - vertcial bars ?

From boatanchors@theporch.com Mon Sep 11 22:07:00 1995  
From: "Greg Anders" <anders@autopsy.corp.sgi.com>  
Subject: Warble in Heath SB 301  
Message-ID: <9509111640.ZM22702@autopsy.corp.sgi.com>

I'm trying to eliminate a problem in a Heath SB 301 that may be mechanical in nature. If I turn on the crystal calibrator and tune in the heterodyne with the VFO the tone heard when approaching zero beat is not smooth, it warbles. I disassembled the dial mechanism and cleaned/lubricated it but that didn't fix the problem. Has anyone ever encountered this in Heath LMO based rigs???

From boatanchors@theporch.com Mon Sep 11 17:13:00 1995  
From: jmartin@hrlban1.aircrew.asu.edu  
Subject: Westinghouse Aeriola Sr.  
Message-ID: <SA39+Nx6Jka@hrlban1.alhra.af.mil>

K9TA wrote:

One of my favorite antique toys is an old Westinghouse "Aeriola Senior" broadcast receiver. When I got it the beast had a dead tube (a WD-12), which has been dissected and turned into a faux tube (there's an MPF-102 FET inside of it now).

While it works quite well, I'd like to put a REAL firebottle in it.

=====

To the best of my knowledge Aeriola Seniors used a WD-11, not a WD-12. The WD-12 is, of course, a WD-11 with a UX base having two large and two small diameter pins, while the WD-11 base has only one large diameter pin. If the faux tube has a UX base, then someone probably went into the set and changed the socket... I've seen this done to Aeriola Sr's before. If your set has a UX type socket and you want to use a '99, just plug in a UX-199 (or CX-399) and observe the proper filament voltage... no adapter required. It would be very difficult to find a replacement WD-11 socket nowadays, but you could use a real WD-12 and be semi-authentic. Nothing beats the dim glow of a real WD-11 or -12, doubly so if it's the tipped clear glass kind with the white lime getter on the seal press inside. With a long antenna, and good ground and headphones, it's remarkable how well these little sets perform. I have one and it's a lot of fun. With just one tube there isn't much volume, and it really teaches a person how to \*listen.\* Best done late at night when there are no other disturbances around the house. WD-11s and WD-12s are expensive but available... Antique Electronic Supply usually has some in stock.

73, John Martin  
jmartin@hrlban1.aircrew.asu.edu

From boatanchors@theporch.com Mon Sep 11 09:58:00 1995  
From: pmills@cyberhouse.com (Phil Mills)  
Subject: WTB: 7027A or KT66 tubes  
Message-ID: <199509101715.MAA09386@ns.cyberhouse.com>

Please forgive me but I believe these to be audio (gasp!) output tubes. I'm helping a friend bring back to life a boatanchor system used for vibration testing and these tubes are in the shaker amplifiers. I've looked in the Antique Radio catalog and they have "CALL" where the price goes so I suspect these are either in short supply, expensive, or both.



thanks for any info or assistance,  
Phil Mills, AB5TH  
pmills@cyberhouse.com  
713-482-2763

From boatanchors@theporch.com Mon Sep 11 17:13:00 1995  
From: bgraham@tecnet1.jcte.jcs.mil  
Subject: WTB: Heath DX-60B  
Message-ID: <199509111657.LAA10836@uro.theporch.com>

I'm in the market for a Heath DX-60B and perhaps an HG-10B VFO

73

Bill  
N5LMX/DA1WG

From boatanchors@theporch.com Mon Sep 11 17:13:00 1995  
From: dcl@genrad.com (Deke C. Lightfoot)  
Subject: re: WTB: Challenger part  
Message-ID: <9509111451.AA20059@pulsar.genrad.com>

John,

I have a 3/4 remaining challenger sans meter, pwr transformer. Send me the description of the parts you need, and I'll mail em your way if they are still there. Include your mail and E-mail address if you don't mind, my system strips all the headers.

73, Deke AA6DF Pepperell, Ma. dcl@genrad.com

From boatanchors@theporch.com Mon Sep 11 09:58:00 1995  
From: KC5IJD@aol.com  
Subject: WTB: S-38 / NC-190  
Message-ID: <950911093006\_16156159@emout05>

Folks,

I am looking for a S-38 (no suffix) in excellent condition.

Also, would like to find a NC-190 in excellent condition.

Anyone have one they will part with.

Joseph W Pinner  
Lafayette, LA  
KC5IJD  
EMail: kc5ijd@aol.com